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Vol. III DECEMBER, 1919 No. 2

THE HAMILTON COLLEGE BULLETIN

ANNUAL CATALOGUE

ONE HUNDRED AND EIGHTH YEAR

1919-1920

CLINTON, N. Y.
PUBLISHED BY THE COLLEGE
1919

Vol. III DECEMBER, 1919 No. 2

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Published by the College four times a year, in November, December, April, and July. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized September 1, 1918.

COLLEGE CALENDAR

First Semester, 1919-1920

1919.

Sept. 18 Thursday, 8:30 a. m., Beginning of the Academic Year.

Christmas Recess, from December 22, Monday, 5:30 p. m., to January 6, Tuesday, 8 a. m.

1920.

Jan. 22-31 Semester Examinations.

Second Semester

Feb. 5 Thursday, 8 a. m., Beginning of the Second Semester.

Feb. 23 *Monday, Washington's Birthday.*

March 3 Wednesday, before noon, Clark Prize Orations due.

Easter Recess, from April 1, Thursday, 5:30 p. m., to April 13, Tuesday, 8 a. m.

April 17 Saturday, before noon, Head, Pruyn, and Kirkland Orations, and Prize Essays due.

May 8 *Saturday, from 10:30, Inter-Academic Day.*

May 22 Saturday, Southworth Prize Examination in Physics.

May 24 Monday, Submission of Elective Choices—Freshmen.

May 25 Tuesday, Underwood Prize Examination in Chemistry.
Tower Prize Examination in Spanish.
Submission of Elective Choices—Sophomores.
Annual Drawing for Rooms.

May 26 Wednesday, Submission of Elective Choices—Juniors.
Clark Prize Exhibition, 8 p. m.

May 27–June 3 Thursday to Thursday, Final Senior Examinations.

May 29 Saturday, Tompkins Prize Examination in Mathematics.
Warfield Prize Examination in German.

May 31 *Monday, Memorial Day.*

June 3-4 Thursday and Friday, Curran and Hawley Prize Examinations in Greek and Latin.

June 1-9	Semester Examinations.
June 9	Wednesday, Final Chapel. Announcement of Honors and Prizes of the Year.

Commencement Week

June 10	Thursday, McKinney Prize Declamation Contest, 4 p. m.
June 11	Friday, Meeting of the Board of Trustees, 2 p. m. Class Day, 2 p. m. McKinney Prize Debate, 4 p. m. The Charlatans. Dramatic Exhibition, 8:15 p. m.
June 12	Saturday, Alumni Day. Meeting of the Alumni Association, 10:30 a. m. Class Reunions. The President's Reception, 4 p. m.
June 13	Sunday, Baccalaureate Sermon, 10:30 a. m.
June 14	Monday, 108th Commencement, 10 a. m.

Summer Vacation of Fourteen Weeks.

First Semester, 1920-1921

Sept. 20-22	Monday to Wednesday, Entrance Examinations.
Sept. 21-22	Tuesday and Wednesday, Registration of New Students.
Sept. 22	Wednesday, New Students meet the Dean in the Chapel. 5 p. m.
Sept. 23	Thursday, 8:30 a. m., Beginning of the Academic Year.
Oct. 7	Thursday, before noon, Soper Prize Theses due.
October	*Thursday, from 12:30, Autumn Field Day.*
Nov. 25	*Thursday, Thanksgiving Day.*

Christmas Recess, from December 21, Tuesday, 5:30 p. m., to January 5, Wednesday, 8 a. m.

1921.

Jan. 20-29	Semester Examinations.
Feb. 3	Thursday, 8 a. m., Beginning of the Second Semester.

THE TRUSTEES

	ELECTED	TERM
HON. ELIHU ROOT, LL.D., R.P.D., D.C.L., New York, *Chairman*	1883	
HON. CHARLES A. HAWLEY, LL.D., Seneca Falls	1884	
GEORGE E. DUNHAM, A.M., Utica, *Clerk*	1891	1922
HAMILTON B. TOMPKINS, A.M., New York	1892	
EX-PRES. M. WOOLSEY STRYKER, D.D., L.H.D., LL.D., Rome	1892	
ALEXANDER C. SOPER, A.M., Lakewood, N. J.	1897	
HENRY H. BENEDICT, A.M., New York	1897	
CHARLES B. ROGERS, A.M., Utica	1899	
BENJAMIN W. ARNOLD, A.M., Albany	1901	
SAMUEL F. ENGS, A.B., Great Barrington, Mass.	1904	1924
HON. FREDERICK W. GRIFFITH, A.M., Palmyra	1907	1921
HON. ABEL E. BLACKMAR, LL.D., Brooklyn	1908	1922
HON. JOSEPH I. FRANCE, PH.D., M.D., Baltimore, Md.	1909	1923
REV. ROBERT G. MCGREGOR, D.D., New Rochelle	1910	1924
REUBEN LESLIE MAYNARD, A.M., New York	1910	1924
JOSEPH RUDD, PH.B., Clinton	1910	1924
REV. LOUIS G. COLSON, A.B., Camden	1911	1925
HENRY MURRAY ANDREWS, A.M., New York	1912	1926
REV. ARTHUR S. HOYT,* D.D., Auburn	1912	1920
WILLIAM M. BRISTOL, A.B., Brooklyn	1912	1926
THOMAS R. PROCTOR, A.M., Utica	1913	1920
DANIEL BURKE, A.M., New York	1913	1920
PRES. FREDERICK C. FERRY, PH.D., SC.D., LL.D., Clinton	1917	
HON. WARREN I. LEE,* A.M., New York	1917	1921

*Elected by the Alumni of the College.

ROBERT W. POMEROY, A.M., Buffalo	1917	1924
CALVIN N. KENDALL,* L.H.D., LL.D., Trenton, N. J.	1918	1922
HON. CHARLEMAGNE TOWER, LL.D., Waterville	1919	1926
PRIN. EDWARD S. BABCOCK,* A.M., Utica	1919	1923

COMMITTEES OF THE TRUSTEES

Executive Committee: MESSRS. FERRY, DUNHAM, GRIFFITH, ROGERS, RUDD.

Ways and Means: MESSRS. SOPER, BENEDICT, MAYNARD, BRISTOL, BURKE.

Instruction and Government: MESSRS. HOYT, BLACKMAR, GRIFFITH, ANDREWS, LEE.

Laboratory, Cabinet, and Apparatus: MESSRS. ENGS, ARNOLD, COLSON, FRANCE, TOWER.

Library: MESSRS. PROCTOR, TOMPKINS, MCGREGOR, BENEDICT, RUDD.

Degrees: MESSRS. FERRY, HAWLEY, STRYKER, MCGREGOR, HOYT.

Buildings and Grounds: MESSRS. ROOT, STRYKER, FERRY, BURKE, MAYNARD.

Undergraduate Activities: MESSRS. BRISTOL, ENGS, COLSON, LEE, BABCOCK.

College Growth: MESSRS. DUNHAM, FERRY, PROCTOR, ANDREWS, POMEROY, KENDALL.

TREASURER

CHARLES B. ROGERS, First National Bank, Utica.

THE FACULTY*

FREDERICK CARLOS FERRY.....*President of the College and Professor of Mathematics.*

A.B., Williams, 1891; A.M., Williams, 1894, and Harvard, 1895; Ph.D., Clark, 1898; Sc.D., Colgate, 1909; LL.D., Hamilton, and Williams, 1917.

HERMAN CARL GEORGE BRANDT.....*Munson Professor of the German Language and Literature.*

A.B., Hamilton, 1872; Ph.D., 1896; L.H.D., Colgate, 1910.

ALBRO DAVID MORRILL.....*Stone Professor of Biology.*

B.S., Dartmouth, 1876; M.S., 1879.

WILLIAM HARDER SQUIRES.....*John Stewart Kennedy Professor of Philosophy.*

A.B., Hamilton, 1888; A.M., 1891; Ph.D., Leipzig, 1901.

SAMUEL J. SAUNDERS.....*Professor of Physics and Instructor in Astronomy upon the Litchfield Foundation. Registrar.*

A.B., Toronto, 1888; A.M., 1893; D.Sc., Cornell, 1894.

WILLIAM PIERCE SHEPARD.....*Burgess Professor of the Romance Languages and Literatures.*

A.B., Hamilton, 1892; A.M., 1893; Ph.D., Heidelberg, 1896.

ARTHUR PERCY SAUNDERS.....*Childs Professor of Agricultural and of General Chemistry; Dean.*

A.B., Toronto, 1890; Ph.D., Johns Hopkins, 1894.

EDWARD FITCH.....*Edward North Professor of Greek.*

A.B., Hamilton, 1886; Ph.D., Göttingen, 1896.

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*Arranged in the order of appointment to rank.

JOSEPH DARLING IBBOTSON.....*Librarian; Instructor in Hebrew.*

A.B., Hamilton, 1890; A.M., 1894.

FRANK HOYT WOOD...*James S. Sherman Memorial Professor of Political Science.*

A.B., Syracuse, 1891; A.M., 1894; A.B., Harvard, 1892; Ph.D., Leipzig, 1900.

FREDERICK MORGAN DAVENPORT.....*Maynard-Knox Professor of Law and Civil Polity.*

A.B., Wesleyan, 1889; Ph.D., Columbia, 1905; LL.D., Wesleyan, 1917.

CALVIN LESLIE LEWIS.....*Upson Professor of Rhetoric and Oratorical Training.*

A.B., Hamilton, 1890; A.M., New York University, 1901.

CLEVELAND KING CHASE..*Benjamin-Bates Professor of Latin.*

A.B., Oberlin, 1891; A.M., 1896; Litt.D., Colgate, 1919.

FRANK HUMPHREY RISTINE.....*Professor of the English Language and Literature.*

A.B., Wabash, 1905; A.M., Columbia, 1907; Ph.D., 1910.

HORACE SEELY BROWN.....*Professor of Mathematics; Clerk of the Faculty.*

B.S., Lafayette, 1899; M.S., 1905.

WILLIAM MASSEY CARRUTH..*Pratt Professor of Mathematics.*

A.B., Cornell, 1901.

NELSON CLARK DALE.....*Professor of Geology.*

B.S., Middlebury, 1903; A.M., Brown, 1909; Ph.D., Princeton, 1914.

MILLEDGE LOUIS BONHAM, JR.....*Publius V. Rogers Professor of History.*

B.Litt., Furman, 1900; A.M., Columbia, 1910; Ph.D., 1911.

RALPH CLEWELL SUPER.....*Associate Professor of Spanish, French, and German.*

A.B., Ohio University, 1895; Diploma of Grenoble, France, 1899.

ROBERT BARNES RUDD.....*Associate Professor of the English Language and Literature.*

A.B., Hamilton, 1909; A.M., 1912; B.A., Oxford, 1912.

PAUL ADEE FANCHER.....*Assistant Professor of English.*

A.B., Amherst, 1910; A.M., Columbia, 1916.

DONALD BLYTHE DURHAM.....*Assistant Professor of Latin and Greek.*

A.B., Princeton, 1905; A.M., 1906; Ph.D., 1911.

ALBERT IRA PRETTYMAN.....*Physical Director.*

International Y. M. C. A. College, Springfield, 1906.

HERMON KING MURPHEY.....*Instructor in Economics and Sociology.*

A.B., Amherst, 1913; A.M., Harvard, 1916; Ph.D., Wisconsin, 1918.

JOSEPH LOUIS RUSSO.....*Instructor in Romance Languages.*

A.B., Liceo Garibaldi, Naples, 1903; A.M., Columbia, 1915.

MAX GEORGE ZIEL.....*Assistant in Physical Training.*

International Y. M. C. A. College, Springfield.

DANIEL LEROY SHIRLEY.....*Assistant in Biology and Chemistry.*

A.B., Hamilton, 1919.

COMMITTEES OF THE FACULTY

Schedule and Studies: PROFESSOR CARRUTH, THE PRESIDENT, PROFESSORS SQUIRES, SHEPARD, CHASE, RISTINE.

Discipline: THE PRESIDENT, THE DEAN, PROFESSORS FITCH, WOOD, RUDD.

Attendance and Scholarship: THE PRESIDENT, THE DEAN, THE CLERK, PROFESSORS CHASE, DALE.

Undergraduate Activities: PROFESSORS WOOD, A. P. SAUNDERS, RISTINE, DALE, MR. PRETTYMAN.

Reading: THE PRESIDENT, PROFESSORS FITCH, WOOD, LEWIS, BONHAM, RUDD.

Library: PROFESSORS IBBOTSON, BRANDT, MORRILL, SUPER.

College Entrance: THE PRESIDENT, PROFESSORS BRANDT, A. P. SAUNDERS, FITCH, RISTINE, BONHAM.

Record of Scholarship: THE REGISTRAR, PROFESSORS CARRUTH, BROWN.

Catalogue: PROFESSORS IBBOTSON, FANCHER, DURHAM.

OTHER COLLEGE OFFICERS

EDWARD M. COUGHLIN.....*Bursar and Warden*
MOLLIE HARRIET ROBERTS, A.B.....*Secretary to the President*
ELBERT BARNEY MATTOON, A.B.....*Field Secretary*
RACHEL SWAN ROBERTS, A.B.....*Library Assistant*
BONNIE ELLIOTT.....*Library Assistant*
MARJORIE BEATRICE BRYANT.....*Library Assistant*
MARY M. KING.....*Manager of Commons*
WILLIAM WALLACE.....*Assistant Superintendent of Buildings and Grounds*

EARLY HISTORY

Hamilton College is the outgrowth of the labors of Samuel Kirkland, missionary to the Oneida Indians through the latter half of the eighteenth century. At the beginning of the Revolutionary War his influence drew many Iroquois to the Colonial cause, and materially contributed to the successful issue of the Battle of Oriskany and the relief of Fort Stanwix. This service of Kirkland won the attention and regard of both Washington and Hamilton. Fifteen years later, when Kirkland determined to establish a school for the Indians and the sons of white settlers, Hamilton gave his support to the project, and became the first trustee of the Hamilton Oneida Academy. The Academy was chartered by the Regents of the State of New York, January 29, 1793. The State and the Indians had granted to Kirkland in 1788 two square miles of land in what is now the Town of Kirkland, a portion of which was set aside for the new institution. Here, in a small clearing, at a spot just south of the present Chapel, the corner-stone of the first building was laid by Baron Steuben, July 1, 1794. The school expanded gradually, until in 1810 its students numbered one hundred and seventy. Two years later, May 26, 1812, the college charter was granted.

AIMS

In a period of rapidly changing educational beliefs, Hamilton College has chosen to preserve the best of the earlier college ideals. It believes that the discipline of language training is an essential part of the preparation for subsequent specialization in any field of study, as well as the basis for a critical appreciation of literature; that the thorough mastery of subjects of approved disciplinary and cultural value is a means of giving students a broad and liberal training for life; and that,

in the diversity of modern educational needs and practices, there is a definite place for the small college that emphasizes the humanities.

While the College thus vigorously maintains the cultural ideal, it aims to slight no subject that is essential to a well-rounded education. The modern languages are not sacrificed to the ancient, nor the natural sciences to philosophic or economic studies. Laboratory training in the methods of science forms an integral part of the scheme of studies prescribed as the basis of a liberal education. At the same time, students may receive thorough preparation for the scientific and the medical schools. Instruction in the principles of constitutional government, begun under Theodore W. Dwight, seventy years ago, and extended to follow the advance of constitutional government throughout the world, equips men for intelligent citizenship. The College has long enjoyed a reputation for the efficient training in oratory which it imparts to all its students. In addition to the usual courses of English study, constant work in public speaking is required of every student throughout his course.

By a judicious application of a group system of studies, the College aims to secure breadth without superficiality, and thoroughness without cramping rigidity. It demands hard and intensive work on the part of its students, and it strives to offer them breadth of educational and spiritual outlook.

ADMISSION

Methods of Admission to the Freshman Class

1. By the examinations of the College Entrance Examination Board. Applications for examinations conducted by this Board must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York City, and must be made upon a blank form to be obtained from the Secretary of the Board at least three weeks in advance of the examination. The fee is six dollars for all candidates. These examinations will be offered at the College, June 21-26, 1920, in accordance with the schedule published by the College Entrance Examination Board.

2. By examination at the College. Entrance examinations will be held in the several department rooms, September 13-18, 1920, as follows:

Monday, Sept. 13 Latin, 2 to 5 p. m.
Tuesday, Sept. 14

The entrance examinations at the College will be held one week later than here indicated. See the calendar, page 3.

Biology, Chemistry, Physics, 2 to 5 p. m.
Advanced mathematics, 2 to 5 p. m.

Any of these examinations may be taken one year before the candidate expects to enter college.

3. By the examinations of the New York State Education Department. Full credit will be given to all examinations in admission subjects conducted by this department. Diplomas and pass-cards issued by it will be accepted so far as they cover the requirements.

The College Entrance Diploma in Arts, issued by the Regents of the University of the State of New York, admits in full to

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2. By examination at the College. Entrance examinations will be held in the several department rooms, September 13-18, 1920, as follows:

Monday, Sept. 13	Latin, 2 to 5 p. m.
Tuesday, Sept. 14	Mathematics, 8:30 to 11:30 a. m.
	English, 2 to 5 p. m.
Wednesday, Sept. 15	Greek, 8:30 to 11:30 a. m.
	Modern languages, 8:30 to 11:30 a. m.
	History, 2 to 4 p. m.
Saturday, Sept. 18	Biology, Chemistry, Physics, 2 to 5 p. m.
	Advanced mathematics, 2 to 5 p. m.

Any of these examinations may be taken one year before the candidate expects to enter college.

3. By the examinations of the New York State Education Department. Full credit will be given to all examinations in admission subjects conducted by this department. Diplomas and pass-cards issued by it will be accepted so far as they cover the requirements.

The College Entrance Diploma in Arts, issued by the Regents of the University of the State of New York, admits in full to

the College; the College Entrance Diploma in Science admits in full, provided that at least two units of Latin be included among the subjects upon which the Diploma is based, and that drawing, shop-work, bookkeeping, and shorthand be not included.

4. By certificate from the principal of the school in which the candidate has been prepared. Such schools must have been approved by the Faculty of the College. Blank certificates will be sent by the President upon request, and should be filed with him as early as possible. These certificates are itemized, specifying time, topics, and grades.

Requirements for Admission

Fourteen and one-half units of secondary school subjects are required. A unit in any subject represents a year's study, constituting approximately a quarter of a full year's work. Under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than 120 sixty-minute periods or their equivalent.

Required

English	3 units	Foreign Language	6 or 5 units
Algebra	1½ units	Elective	2 or 3 units
Plane Geometry	1 unit		
History	1 unit	Total	14½ units

Elective (not included above)

Elementary German	2 units	Ancient, European, English, American History, each	1 unit
Advanced German	1 unit	Biology	1 unit
Elementary French	2 units	Chemistry	1 unit
Advanced French	1 unit	Physics	1 unit
Elementary Spanish	2 units	Physical Geography	1 unit
Fourth year of Latin	1 unit	Adv. Mathematics	1 or 1½ units
Third year of Greek	1 unit		

A single elementary year of a language will not be counted as fulfilling any unit of these requirements. The third

year of advanced language study may, however, be presented as an elective unit.

Part, at least, of the preparatory work in algebra should be done in the final year in the secondary school.

The following combinations of foreign languages and elective subjects may be made, eight units in each case. These, added to the six and one-half units of English, mathematics, and history, satisfy the total requirement of 14½ units.

Admission Groups

I		II		III		IV	
Latin	4	Latin	4	Latin	4	Latin	4
Greek	3	Greek	2	Mod. L.	3	Mod. L.	2
Elect.	1	Elect.	2	Elect.	1	Elect.	2
	8		8		8		8

V		VI		VII		VIII	
Latin	3	Latin	3	Latin	3	Latin	2
Mod. L.	3	Mod. L.	2	Mod. L.	2	Mod. L.	3
Elect.	2	Mod. L.	2	Elect.	3	Elect.	3
		Elect.	1				
	8		8		8		8

A like number of units of admission Greek are accepted as a substitute for Latin in Admission Groups V-VIII.

A student slightly deficient in any subject required for admission may be admitted with a condition in that subject. For the removal of the condition the department concerned will fix a program of study, and will set an examination not later than the opening of the second term.

Definition of Requirements

ENGLISH

(1) English Grammar and Composition

English grammar should ordinarily be reviewed in the high school, and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition, punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument, based on simple outlines. Finally, special instruction in language and composition should be accompanied by a concerted effort of teachers to cultivate in the student the habit of using good English in all his recitations and various exercises, whether oral or written.

(2) English Literature

The requirement includes, first, a thorough familiarity with at least ten selections made from five groups of books prescribed *for reading,* and second, a more minute knowledge of certain specified examples of the drama, lyric, essay, and oration prescribed *for study.* The books necessary to meet both parts of the requirement are those recommended by the National Conference on Uniform Entrance Requirements in English. For 1920–1922 they are as follows:

(A) For Reading

The books provided for reading are arranged in five groups, from each of which at least two selections are to be made, except that for any book in Group 1 a book from any other group may be substituted. Selections are set off by semicolons.

Group 1. Classics in Translation. The *Old Testament,* comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey,* with the omission, if desired, of books 1-5, 15, and 16; the *Aeneid.* The *Odyssey* and *Aeneid* should be read in translations of recognized literary excellence.

Group 2. Drama. Shakespeare's *Merchant of Venice; As You Like It; Julius Caesar.*

GROUP 3. PROSE FICTION. Dickens' *A Tale of Two Cities;* George Eliot's *Silas Marner;* Scott's *Quentin Durward;* Hawthorne's *The House of Seven Gables.*

GROUP 4. ESSAYS, BIOGRAPHY, ETC. Addison and Steele's *Sir Roger de Coverley Papers;* Irving's *Sketch Book* (about 175 pages); Macaulay's *Lord Clive;* Parkman's *Oregon Trail.*

GROUP 5. POETRY. Tennyson's *The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, Good News from Ghent, Home Thoughts, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus;* Scott's *The Lady of the Lake;* Coleridge's *The Ancient Mariner* and Arnold's *Sohrab and Rustum.*

(B) FOR STUDY

The books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP 1. DRAMA. Shakespeare's *Macbeth; Hamlet.*

GROUP 2. POETRY. Milton's *L'Allegro, Il Penseroso, Comus;* Palgrave's *Golden Treasury (First Series),* Book 4, with special reference to Wordsworth, Keats, and Shelley.

GROUP 3. ORATORY. Burke's *Speech on Conciliation with America;* Washington's *Farewell Address,* Webster's *First Bunker Hill Oration,* and Lincoln's *Gettysburg Address.*

GROUP 4. ESSAYS. Macaulay's *Life of Johnson;* Carlyle's *Essay on Burns,* with a selection of Burns' poems.

MATHEMATICS

(a) Elementary Mathematics

ELEMENTARY ALGEBRA—The four fundamental operations for rational algebraic expressions; factoring, determination of the highest common factor and lowest common multiple by factoring; fractions, including complex fractions and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative; quadratic equations, both numeri-

cal and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions, with applications. Algebra should be reviewed during the last preparatory year.

Plane Geometry—The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

(b) Advanced Mathematics

Advanced Algebra—Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs, and Horner's method, but not Sturm's functions or multiple roots.

Solid Geometry—The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

Plane Trigonometry—Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles and practical applications.

HISTORY

Ancient History, European History, English History, and United States History and Civil Government may each be offered as one unit for entrance. An accurate text-book of about 500 pages should be covered, and supplemented by suitable parallel readings of about 1000 pages. Attention should be paid to historical geography. The examination will call for comparison of historical characters, periods, and events, and for the exercise of judgment as well as of memory.

LATIN

The requirement for admission by examination is that of the College Entrance Examination Board, as stated below. This statement also indicates the preparation required of a candidate who presents a principal's certificate for admission. The requirement in a modified form is incorporated in the Syllabus of the New York State Education Department, whose credentials are accepted. For a candidate who offers but three units of Latin, requirement I, 2, b, or I, 2, c, below, is omitted; for one who offers only the two units required for the Latin-Scientific Course, I, 2, b, and I, 2, c, below, are both omitted.

I. Amount and Range of Reading Required

(1) The reading, without regard to the prescription of particular authors and works, shall not be less in amount than Caesar, *Gallic War,* I-IV; Cicero, the orations against Cataline, for the Manilian Law, and for Archias; Vergil, *Aeneid,* I-VI.

(2) The amount of reading specified above shall be selected by the schools from the following authors and works: (*a*) Caesar, *Gallic War* and *Civil War,* and Nepos, *Lives;* (*b*) Cicero, orations, letters, and *De Senectute,* and Sallust, *Cataline* and *Jugurthine War;* (*c*) Vergil, *Bucolics, Georgics,* and *Aeneid,* and Ovid, *Metamorphoses, Fasti,* and *Tristia.*

II. Scope of the Examinations

(1) Translation at Sight—Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(2) Prescribed Reading—Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, *Aeneid,* I, II, and either IV or VI,

at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not receive credit for either part.

(3) GRAMMAR AND COMPOSITION—The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

GREEK

The requirement is substantially as defined by the New York State Education Department in its Syllabus outlining the work of the first, second, and third years; and by the College Entrance Examination Board, under *A1, A2, B, C, G.*

(1) Greek Grammar; Xenophon's *Anabasis,* Books 1-4; the translation at sight of easy Greek prose; the translation into Greek of simple sentences based upon Books 1-2 of the *Anabasis,* in order to test the candidate's knowledge of forms and important principles of syntax. (Two units.)

(2) Homer's *Iliad,* Books 1-3 (omitting the catalogue of the ships), or an equivalent amount of the text of Homer. This includes Homeric forms, constructions, and prosody. (One unit.)

The requirements as above stated apply to candidates who are admitted either by certificate or by examination; and to competitors for the Maynard and Brockway Entrance Prizes and the Fayerweather Scholarships in so far as such competitors offer Greek as an entrance subject.

An alternative provision is made for candidates for the John W. Vrooman Freshman Prize Scholarship in Greek. These are examined orally upon the Greek text of the *Gospel of Luke* and upon Homer's *Iliad,* Books 1-3. Candidates who make a satisfactory record in this prize competition will be held to have met requirement 2 above, and so much of requirement 1 as is covered by Books 2-4 of the *Anabasis.* The remaining parts of the total requirement may be satisfied either by examination or upon certificate. A competitor for the Vrooman prize may also enter the Maynard and Brockway prize competition.

MODERN LANGUAGES

The requirements follow the recommendations of the Committee of Twelve of the Modern Language Association of America, upon which the more detailed statements of the College Entrance Examination Board and of the New York State Education Department are based.

In French and German the requirements are divided into (*a*) elementary (two units), and (*b*) advanced (one unit). *A single first year* no longer counts as one unit, either in combination with two years of another language or as a substitute for a third year of Greek or a fourth year of Latin. In general a modern language should be treated as a living language which is not merely to be read, but also to be written, spoken, and understood when heard. Hence the accurate acquisition of the foreign sounds and of a standard pronunciation is all important from the beginning, and the "direct" method of teaching the most effective. In the preparatory work great stress should be laid on oral and auricular training; the pupil should receive a constant drill in pronunciation, dictation, and the free reproduction (both in English and in French and German) of phrases read aloud by the teacher. Teachers in preparatory schools should follow the method of oral and aural drill recommended by the Association of Modern Language Teachers of the Middle States and Maryland. The examination will include a suitable test in pronunciation and ability to understand the spoken language. Schools certifying a candidate for admission must state whether he has received this training.

French

(a) Elementary French—The work of the first year should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of adjectives, participles, and pronouns, the use of personal pronouns, adverbs, prepositions, and conjunctions, the order of words in a sentence, and the elementary rules of syntax, with constant drill upon exercises illustrating these principles; (3) the reading of at least 100 pages of graduated texts, with constant practice in translating into French easy variations of the sentences read, and in reproducing from memory sentences previously read; (4) simple conversations and writing of French from dictation. The work of the second year should comprise: (1) the reading of at least 250 pages of easy modern prose in the form of stories, plays, or historical and biographical sketches; (2) constant practice, as in the first year, in translating into French variations on the texts read;

(3) frequent abstracts, sometimes oral and sometimes written, of portions of the texts already read; (4) writing French from dictation; (5) continued drill in the rudiments of grammar and in the writing of sentences illustrative of the grammatical principles; (6) conversation, and the answering in French by the student of questions based on the text read. Suitable texts for the second year are About's *Le Roi des Montagnes,* Daudet's easier short tales, Erckmann-Chatrian's stories, Malot's *Sans Famille,* Sarcey's *Le Siège de Paris,* Labiche's *La Poudre aux Yeux, Le Voyage de M. Perrichon, La Cagnotte,* extracts from Michelet, Verne's stories.

(b) Advanced French—A systematic course of five periods a week, extending over a third school year, in addition to the elementary course, should comprise: (1) at least 400 pages of French of ordinary difficulty, a portion to be in dramatic form; (2) constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; (3) the study of a grammar of moderate completeness; (4) writing from dictation; (5) continuation of the drill in oral and auricular training. At the end of this course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a thorough knowledge of syntax and morphology. Suitable texts are: About's stories, Augier's plays, Béranger's poems, Corneille's *Le Cid* and *Horace,* Labiche's plays, Loti's *Pêcheur d'Islande* and *Ramuntcho,* Molière's *L'Avare, Le Bourgeois Gentilhomme* and *Le Médicin malgré Lui,* Racine's *Athalie, Andromaque* and *Esther,* George Sand's *La Mare au Diable* and *François le Champi,* Scribe's plays, Thier's *L'Expédition de Bonaparte en Égypte,* Voltaire's historical writings.

German

(a) Elementary German—The work of the first year should comprise: (1) a thorough, scientific, not merely imitative, acquisition of German sounds and sentence-accent (intonation); (2) drill in the rudiments of grammar; the declension of articles, nouns, adjectives, and pronouns; the conjugation of weak verbs and of the common strong and irregular verbs; the use of the prepositions that govern the dative, the accusative, or both; the fundamental rules of syntax and word-order; (3) the reading of not less than 75 pages, preferably of graduated texts from a beginner's reader, followed by a comedy of Benedix, such as *Eigensinn* or *Versalzen,* by short stories of Frommel,

Baumbach, or by *Biblische Geschichten;* (4) constant practice in translating into German simple exercises and easy variations upon sentences taken from the reading lesson. This and the frequent repetition and memorizing of easy colloquial sentences, proverbs, and short simple poems form the best starting point for conversation and dialogue. The work of the second year should comprise: (1) continued drill upon the elements of grammar, abundant illustrations, English and German, preferably from a separate exercise book, of such difficult features as the use of *haben* and *sein* in the active voice; of the modal auxiliaries; the subjunctive; adjectives used as nouns or that have become nouns; (2) continued practice as under first year; (3) the reading of 200 pages, which should include 50 or 60 pages of more difficult selections from the reader rather than three or four short texts with special vocabularies and copious notes. Suitable texts are: short stories such as Wildenbruch's *Das edle Blut,* Frenssen's *Gravelotte;* Eichendorff's *Aus dem Leben eines Taugenichts;* a short tragedy, such as Sudermann's *Teja;* a comedy, such as Moser and Heiden's *Köpnickerstrasse 120,* or Freytag's *Die Journalisten.*

(b) ADVANCED GERMAN—The work should comprise, in addition to the elementary course, the four following topics: (1) the reading of at least 400 pages of moderately difficult prose and poetry. Suitable texts are: the more difficult short stories of Seidel, Keller, and Raabe; Chamisso's *Peter Schlemihl;* Mogk's *Deutsche Sitten und Gebräuche;* plays such as Fulda's *Unter vier Augen* or *Talisman;* Sudermann's *Heimat* or Ludwig's *Erbförster;* Schiller's *Tell* or *Jungfrau von Orleans;* Goethe's *Vicar of Sesenheim;* Goethe's *Hermann und Dorothea.* The use of texts with special vocabularies should cease and the use of a comprehensive dictionary should be encouraged. (2) The grammar should be completed by taking up word-formation and the comparison of cognates (German and English words of the same origin, such as *Schwester—sister; zehn—ten; Urlaub—furlough*); also the nicer uses of the definite article and the compounded verbs that may be separable or inseparable. The study of the more theoretical grammars of Joynes, Brandt, and Whitney is recommended for this purpose and for the mastery of the technical language of the grammar. (3) Continuance of paraphrasing, abstracting, and reproducing the reading matter. The use of German by teacher and student to the utmost limit. (4) Sight-reading of some easier text with foot-notes.

Spanish

The two years' work should comprise the following: careful drill in pronunciation; a complete study of some good grammar; mastery of all but the rare irregular verbs; the inflection of nouns, adjectives, and pronouns; the essential elements of syntax; the reading of at least 300 pages of modern Spanish prose or verse; exercises containing illustrations of the principles of grammar, and practice in translating into Spanish variations of texts read; writing Spanish from dictation.

BIOLOGY

The requirement of one unit may be satisfied by presenting any one of the following subjects:

(a) General Biology—The activities of living things should be the central idea. The laboratory and class-room work should include a study of the functions of representative plants and animals and their relation to each other and to their environment. These studies should be bound together by a knowledge of the common laws of living organisms.

(b) Botany—A study of examples of the great groups of plants should include the general laws of plant physiology, the fundamental facts of plant structure, and the relation of plants to animals and to man.

(c) Zoology—Representative common animals should be studied in field and laboratory that a knowledge of their habits and structure and of their structural and economic relation to man may be obtained. The relationship of plants to animals should also be considered.

As an essential part of any of these methods of meeting the requirement, a certified note-book with drawings and description of work done should be presented with the certificate, or at the time of examination. A more detailed account of the requirement may be found in the Syllabus of the New York State Education Department or in the publications of the College Entrance Examination Board.

CHEMISTRY

The requirement is substantially that specified in the Syllabus of the New York State Education Department. Not less than one-half

of the course should be individual laboratory work devoted to the preparation and study of the common elements and compounds and to experiments illustrating important laws. The course should also include lecture-table demonstrations and the study of some good elementary text-book, with recitations covering the fundamental laws and theories of chemical combination, and the preparation, properties, and uses of the more important metallic and non-metallic elements, and their compounds.

PHYSICS

A detailed statement of the requirement may be found in the Syllabus of the New York State Education Department or in the publications of the College Entrance Examination Board. Preparation should include a knowledge of the general laws and principles of physics as presented in a good text-book, together with at least thirty experiments selected from a list similar to that given in the Syllabus. The student taking the examination here should present his note-book, with certification by the instructor under whose supervision the work was done that the experiments were satisfactory to him and were performed by the student himself.

A student who does not offer a note-book may meet the requirement by showing ability to solve more difficult problems in theoretical physics.

ADMISSION TO ADVANCED STANDING

A student who comes from an approved institution of collegiate rank and presents an official statement of his previous work may receive credit for such work without examination. This statement must include a full list of his accepted preparatory subjects, a list of his college courses with his record therein, and a letter of honorable dismissal.

Any other student may be admitted to advanced standing by passing the necessary examinations of the departments concerned up to the point at which he desires to enter.

To compete for honors or prizes based in any way upon collegiate work done previous to entrance here, a student must pass examinations covering such work.

ADMISSION TO SPECIAL COURSES OF STUDY

A student of serious purpose, not a candidate for a degree, is admitted to courses which he is competent to pursue, subject to the approval of the departments concerned. A special student is not held strictly to the entrance requirements for the regular courses; but deficiency in any subject must be offset by more advanced preparation in another. He must choose courses amounting to not less than fifteen hours a week, not including public speaking. He must attain an average grade of 60 in the work of each term. In other respects he is subject to the administrative rules governing regular students. He is not eligible to scholarships, honors, or prizes.

A special student attaining a grade of 80 for a complete year receives a certificate of proficiency. One who pursues studies for two or more years with an average grade of not less than 85 is named on the commencement program as a candidate for a certificate of completed special study.

REGISTRATION

All new students are required to register on the Tuesday or Wednesday before the opening of the first term. For this purpose the Committee on Schedules and Studies will be in session at hours to be bulletined. At this time all freshmen will make their election of courses for the year, according to the regulations on pages 28 and 29.

All new students meet the Dean in the Chapel at five o'clock on the last day of registration.

ENTRANCE PRIZES AND SCHOLARSHIPS

Prizes and prize scholarships are awarded upon the basis of the September examinations as follows:

(1) The Maynard Prize of $100.

(2) The Brockway Prize of $25.

(3) The five Fayerweather Prize Scholarships, yielding $100 each for freshman year.

(4) The John W. Vrooman Prize Scholarship, yielding $100 for freshman year.

A detailed statement regarding these competitions will be found on pages 56 and 63.

There is a limited number of non-competitive scholarships which are available for freshmen. The conditions under which these scholarships are awarded will be found on pages 52-54 under the heading "Scholarships."

CURRICULUM AND GRADUATION

The curriculum provides courses leading at graduation to two degrees, Bachelor of Arts (A.B.) and Bachelor of Science (B.S.). At admission the undergraduate may register for either degree as he chooses. The curriculum in either case calls for four years of work, but it is possible for students of high standing to shorten the time of residence by taking extra work.

The following statements apply to candidates for both degrees except where otherwise indicated:

1. The requirement for graduation demands the completion of 140 semester hours of required and properly chosen elective courses. (For students who complete the requisite elective courses in less than four years, certain required hours are omitted. See p. 30.) A semester hour represents one hour of classroom work (or two hours of laboratory work) per week through half of the college year. Normally an undergraduate takes in each semester in freshman year 17 semester hours, in sophomore year 18, in junior year 18, and in senior year 17. No undergraduate is allowed to take more than 21 or less than 14 hours in any semester; but any deviation from the normal number is subject to the approval of the Committee on Schedule and Studies.

2. The courses taken must include two majors, which are begun in freshman, sophomore, or junior year, and are continued until the end of senior year. A major consists of three or more year courses in the same department. An exceptional student may, with the permission of the department concerned, complete a major by adding to the work of freshman year two year courses taken in junior and senior years. An undergraduate who as a freshman takes Chemistry 1-2 or Mathematics 3-4 may complete a major in either of these subjects by taking two further year courses in it.

3. At least six semester hours in one of the natural sciences and at least twelve semester hours in one of the modern languages must be taken in college.

4. Candidates for the A.B. degree must take one ancient and one modern language in freshman year.

5. Candidates for the B.S. degree must take two modern languages in freshman year and complete two majors in Group C (see Elective Courses, p. 30).

6. An undergraduate who, after completing courses leading towards one of the degrees, desires to become a candidate for the other degree may do so with the approval of the Committee on Schedule and Studies. Any hitherto unsatisfied requirement for the degree sought must be met before the change becomes effective.

7. All courses are arranged as year-courses and are to be taken accordingly. In the notation used, an odd numeral refers to the first semester portion of the course and an even numeral to the second semester portion.

8. An undergraduate who desires to receive credit for work in a summer school must apply to the Faculty in advance for approval of his plans.

Descriptions of the courses are to be found under the heading "Departments of Instruction".

Courses of Freshman Year

Required of All Freshmen

Mathematics 1-2	3 hours
Public Speaking 1, 3-4 / English Composition 1-2	4 hours
Hygiene and Physical Training	1 hour
A foreign language	3 hours
A second foreign language	3 hours
An elective	3 hours
Total	17 hours

Foreign Language Courses Open to Freshmen

Greek 5-6 (prerequisite, 3 units of entrance Greek).
Greek 3-6 (prerequisite, 2 units of entrance Greek).
Greek 1-2 (beginners' course).
Latin 1-2 (prerequisite, 3 or 4 units of entrance Latin; no Latin course is open to students who present only 2 units of that language for entrance; but such undergraduates may qualify for the degree of Bachelor of Arts by taking in college Greek 1-2 and Greek 3-6 instead of Latin).
German 3-4 (prerequisite, 2 or 3 units of entrance German).
German 1-2 (beginners' course).
French 3-4 (prerequisite, 2 or 3 units of entrance French).
French 1-2 (beginners' course).

Elective Courses Open to Freshmen

A third foreign language
History 1-2
Biology 1-2
Chemistry 1-2

For their foreign language courses in the freshman year, candidates for the degree of Bachelor of Arts take a modern language and either Greek or Latin; candidates for the degree of Bachelor of Science take two modern languages; and in both cases a third foreign language may be taken as an elective if the candidate desires.

An undergraduate who takes the beginners' course in Greek, German, or French in freshman year must take the second course in that language in sophomore year. (See 4 below.)

A student who offers four units of Mathematics at admission must take Mathematics 3-4 instead of Mathematics 1-2 in freshman year.

Courses of Sophomore, Junior, and Senior Years

Required Courses

In sophomore and junior years six semester hours and in senior year four semester hours of work in the Department of

Rhetoric and Oratory are required of all students. But students who otherwise qualify for graduation in less than four years are excused from that part of this work which extends beyond their period of residence.

Elective Courses

Except for the required work as above described, all courses of sophomore, junior, and senior years are elective. The choice of courses is made under a group system, the departments of study being arranged in three groups, as follows:

Group A. Foreign Languages, including Anglo-Saxon and Middle English.

Group B. Rhetoric and Oratory, English Literature, Philosophy, History, Political Science, Law and Civil Polity, Economics and Sociology, Ethics and Bible.

Group C. Mathematics, Natural Sciences.

Regulations Governing Electives

1. All courses are continuous through the year and must be elected accordingly.
2. Three exercises a week are assigned to all courses.
3. Courses for the next year are chosen at the end of freshman, sophomore, and junior years respectively.
4. A foreign language begun in freshman year must be continued through sophomore year.
5. In sophomore and in junior year a student must take at least one course from each group, and in senior year at least one course from each of two groups.
6. The elective courses must be so chosen as to comply with the requirements in paragraphs 1-5 on pages 27 and 28.
7. After freshman year an undergraduate may take any elective course offered to his own or to a lower class if he has satisfied its prerequisites.

Note—The choice of studies for the year must be made not later than the designated day in May; the day for juniors being the fourth Wednesday, for sophomores the preceding Tuesday, for freshmen the preceding Monday. All elective cards must conform to the regulations as given above, and all courses must be numbered and indicated as in the Summary of Elective Courses. The Committee on Schedule and Studies will assign courses to a student who does not return his elective card properly filled on or before the appointed day. No student may change his program of studies for the year after 3 p. m. of the day before the opening of the first term, and then only upon written application to the chairman, giving reasons satisfactory to the Committee.

Summary of Elective Courses by Groups

SOPHOMORE YEAR

Group A

GREEK 7-8: Plato, Theocritus.
GREEK 3-6: Homer.
LATIN 3-4: Tacitus and Pliny, Catullus and Cicero.
GERMAN 3-4: Intermediate German, Modern Plays and Novels.
GERMAN 5-6: Lyric Poetry, Historical Tragedy.
FRENCH 3-4: Intermediate French, Modern Comedy.
FRENCH 5-6: Tragedy, Comedy.

Group B

ENGLISH LITERATURE 1-2: General Introduction.
PHILOSOPHY 1-2: Psychology, Logic.
HISTORY 1-2: Medieval and Modern Europe.
HISTORY 3-4: England and the British Empire.
POLITICAL SCIENCE 1-2: Modern Governments.

Group C

MATHEMATICS 3-4: Analytic Geometry, Differential Calculus.
BIOLOGY 1-2: General Biology.
CHEMISTRY 1-2: Elementary College Chemistry.
PHYSICS 1-2: General Physics.
GEOLOGY 1-2: General Geology.

JUNIOR YEAR

Group A

GREEK 7-8: Plato, Theocritus.
GREEK 11-12: Prose Writers.
LATIN 5-6: Drama, Satire.
GERMAN 5-6: Lyric Poetry, Historical Tragedy.
GERMAN 7-8: Goethe, Lessing.
FRENCH 5-6: Tragedy, Comedy.
FRENCH 7-8: History of French Civilization.
SPANISH 1-2: Elementary Spanish.
ENGLISH LANGUAGE 1-2: Anglo-Saxon, Middle English.

Group B

ENGLISH COMPOSITION 5-6: Advanced English Composition.
ENGLISH LITERATURE 3-4: Seventeenth and Eighteenth Centuries.
ENGLISH LITERATURE 5-6: Romantic Period, Victorian Era.
PHILOSOPHY 3-4: Plato to Spencer.
HISTORY 3-4: England.
ECONOMICS 1-2: Principles of Economics, Economic Problems.
ECONOMICS 3-4: Sociology.
POLITICAL SCIENCE 3-4: Modern Governments, Political Science.

Group C

MATHEMATICS 5-6: Calculus, Analytic Geometry.
BIOLOGY 3-4: Zoology, Embryology.
CHEMISTRY 3-4: Analytical Chemistry.
PHYSICS 3-4: Mechanics, Heat, Sound, and Light.
GEOLOGY 3-4: Historical and Structural Geology.
GEOLOGY 5-6: Mineralogy.
GEOLOGY 7-8: Physiography.

SENIOR YEAR

Group A

GREEK 11-12: Prose Writers.
LATIN 7-8: History of Latin Literature.
ART 1-2: Greek and Roman Art.
GERMAN 7-8: Goethe, Lessing.
GERMAN 9-10: History of the German Language and Literature.
FRENCH 7-8: History of French Civilization.
FRENCH 9-10: Romance Philology, Medieval Literature.
ITALIAN 1-2: Modern Italian, Dante.
SPANISH 3-4: Advanced Grammar and Modern Prose.
HEBREW 1-2: Grammar, Historical Prose.

Group B

ENGLISH COMPOSITION 7-8: Advanced English Composition.
ENGLISH LITERATURE 7-8: Shakespeare and Elizabethan Drama.
ENGLISH LITERATURE 9-10: English Bible and 17th Century Prose.
PHILOSOPHY 5-6: Current Problems, Philosophical Classics.
PHILOSOPHY 7-8: Pedagogy.
PHILOSOPHY 9-10: Ethics.
HISTORY 7-8: History of the United States.
POLITICAL SCIENCE 5-6: International Law, International Relations.
LAW 1-3: Democracy.
LAW 5-ECONOMICS 6: Elementary Law, the Labor Problem.
ECONOMICS 5-6: Public Finance, the Labor Problem.

Group C

MATHEMATICS 7-8: Differential Equations, Projective Geometry.
BIOLOGY 5-6: Bacteriology, Physiology.
CHEMISTRY 3-4: Analytical Chemistry.
PHYSICS 7-8: Experimental Physics.
GEOLOGY 5-6: Mineralogy.
GEOLOGY 7-8: Physiography.

DEPARTMENTS OF INSTRUCTION

All courses are continuous through the year and are assigned three hours a week, except as otherwise stated. An odd number refers to the first semester portion of a course; an even number, to the second semester portion.

Group A

GREEK

PROFESSOR FITCH

ASSISTANT PROFESSOR DURHAM

1-2. ELEMENTARY GREEK. Allen's *First Year of Greek.* Exercises in writing Greek continue throughout the year. *Open to freshmen who enter without Greek.*

3-6. HOMER. First semester: selections from the *Iliad;* Homeric forms, construction, and prosody. Second semester: selections from the *Odyssey,* with particular attention to the structure of the poem, to Homeric antiquities, and to the historical aspects of the language. *Prerequisite, 1-2, or two units of entrance Greek.*

5-6. LYSIAS. HOMER'S ODYSSEY. First semester: select orations of Lysias, with a review of the grammar, work in prose composition, and an introductory study of rhetorical style. Second semester: selections from the *Odyssey,* with particular attention to the structure of the poem, to Homeric antiquities, and to the historical aspects of the language. *Open to freshmen who enter with three units of Greek.*

7-8. PLATO. THEOCRITUS. First semester: the *Apology, Crito,* and portions of the *Phaedo.* A study of the character of Socrates as portrayed by Plato and of the more general aspects of his significance as a thinker. Second semester: lyric poetry; the *Idylls* of Theocritus, illustrated by parallel passages from the other Alexandrian poets. *Prerequisite, 3-6 or 5-6.*

9-10. GREEK DRAMA. Careful interpretation of a tragedy of Aeschylus, Sophocles or Euripides, followed by rapid reading of other selected tragedies. Aristophanes is studied in similar manner. The year's work includes a survey of Greek poetry from Homer to the drama. *Prerequisite, 7-8. Alternates with 11-12.* (Not offered in 1919-20.)

11-12. PROSE WRITERS. Thucydides, Books 2, 3. The sources of Greek history. Demosthenes' *De Corona.* Plutarch's Life of Demosthenes. The *New Testament* in Greek; selections from *The Acts. Prerequisite, 7-8. Alternates with 9-10.*

GREEK PROSE COMPOSITION. Upon application to Professor Durham an optional course in Greek prose composition, without college credit, is given to students desiring practice in writing Greek. *One hour a week for the year.*

In connection with 5-6, 7-8, 9-10, illustrated lectures on art and archaeology are given, and collateral reading is required. The topics treated are: the Acropolis, its history and monuments; the Cretan and Mycenean periods; the Parthenon; the monuments of Olympia and Delphi.

Greek and Roman Art

PROFESSOR FITCH

PROFESSOR CHASE

1-2. ANCIENT ART. First semester: Greek architecture, sculpture, and vase-painting. Second semester: Roman sculpture, painting, architecture, and construction; early Christian and Byzantine art; transition to medieval art. A text-book, supplemented by illustrative material, including charts, photographs, and lantern slides; collateral reading. *Open to seniors.*

LATIN

PROFESSOR CHASE

ASSISTANT PROFESSOR DURHAM

1-2. LIVY AND HORACE. Selections from Books 1, 21, and 22 of Livy, with a review of Latin grammar and prose composition. A purely literary study of the *Odes and Epodes* of Horace. *Open to freshmen who enter with more than two units of Latin.*

3-4. TACITUS, PLINY, CATULLUS, AND CICERO. First semester: the *Agricola* of Tacitus and selected letters of Pliny, with a study of the literature and society of the Silver Age. Second semester: the poetry of Catullus and selected letters of Cicero, with a study of the political and social history of the period. *Prerequisite, 1-2.*

5-6. ROMAN DRAMA AND SATIRE. First semester: one tragedy of Seneca read rapidly; Plautus and Terence. Emphasis is placed on

Roman comedy; several plays are read. Second semester: after a brief introduction to early satire, attention is devoted mainly to the reading of Horace and Juvenal. *Prerequisite, 3-4.*

7-8. History of Latin Literature. This course consists primarily of extended readings from the Latin authors; with lectures, and the reading of modern authorities. In the second semester, certain problems connected with the language as well as the literature are considered. *Prerequisite, 5-6.*

Latin Prose Composition. Upon application to Professor Durham an optional course in prose composition, without college credit, is given to students desiring practice in writing Latin. *One hour a week for the year.*

GERMAN

Professor Brandt

Associate Professor Super

Courses 1 to 4 are planned to give not only a sound preparation for speaking German, but also a fluent reading knowledge, which is useful in junior and senior courses and required in the best graduate and professional schools. To insure this proficiency, a student entering without German should begin it freshman year, as there is no assurance of a convenient opportunity to elect back later. Courses 5 to 10 aim to give an intimate acquaintance with the language, literature, and civilization of Germany.

1-2. Elementary German. Thorough grounding in pronunciation, forms, and syntax. From the beginning stress is laid on writing and speaking. Selections from a Reader. In the second semester, Schiller's *Tell* is added to the readings.

3-4. Intermediate German. First semester: grammar, word-formation, prose composition on difficult syntactical points. Reading of Schiller's *Jungfrau von Orleans* and Goethe's *Hermann und Dorothea;* historical prose from the *Reader.* Second semester: rapid reading of modern plays and short novels for the expansion of the vocabulary. *Prerequisite, 1-2, or the equivalent in entrance German. Required of sophomores who have taken 1-2 as freshmen.*

5-6. Lyric Poetry and Historical Tragedy. First semester: lyric poetry from Walter von der Vogelweide to the present day. Echter-

meyer's *Auswahl Deutscher Gedichte* and *The Oxford Book of German Verse*. Extra readings, with abstracts in German, are assigned. Alternative, The German Romantic School. Second semester: Schiller's *Don Carlos* and *Wallenstein;* Goethe's *Egmont;* modern plays by Grillparzer, Hebbel, and Wildenbruch. *Prerequisite, 3-4.*

7-8. GOETHE AND LESSING. Goethe's life and works, centering in *Faust I* and *II*. Lessing's plays and prose works. Lewisohn's *German Style. Open to seniors and juniors who have completed 3-4.*

9-10. HISTORY OF THE GERMAN LANGUAGE AND LITERATURE. German lectures and essays. Selected readings from Middle High German and sixteenth century literature. History of the language, etymology, and phonology. Training in phonetics and methods of teaching. *Open to juniors and seniors who have completed 3-4.*

ROMANCE LANGUAGES

French

PROFESSOR SHEPARD, ASSOCIATE PROFESSOR SUPER, AND MR. RUSSO

Courses 1 to 4 are given mainly by the oral method, and are intended to provide a preparation for spoken French, as well as a reading knowledge of the language. Students, especially freshmen, should bear in mind that a knowledge of French is now demanded for work in professional and graduate schools and that there is no certainty of a convenient opportunity to acquire it later. Ordinarily, at least two years of French should be taken in college, nor will any student be allowed to elect course 1-2 only, without permission from the department head. Courses 5-10 are designed to introduce the student to a more exact and thorough knowledge of the French language, literature, and thought.

1-2. ELEMENTARY FRENCH. Grammar, including careful drill in pronunciation, easy reading, composition, conversation, dictation. The oral method is used extensively and as early as possible.

3-4. INTERMEDIATE FRENCH. MODERN COMEDY. First semester: reading of modern prose fiction, short stories, etc. Advanced composition. Continued practice in dictation and conversation, based on the texts read. Second semester: rapid reading of selected plays; writing of abstracts, and conversation based on texts read. Special attention to

pronunciation and to reading without translating. *Prerequisite, 1-2. Required of sophomores who have taken 1-2 as freshmen.*

5-6. French Drama. First semester, tragedy, from Corneille to Rostand. Reading in class of selected plays of Corneille, Racine, Hugo, and Rostand. Many others are assigned for outside reading. *Résumés* and *critiques* in French of assigned outside reading; lectures in French on the history of tragedy. Second semester: comedy, from Molière to Dumas *fils*. Reading in class of selected plays of Molière, Beaumarchais, Marivaux, Musset, Augier, and Dumas *fils*. *Résumés* and *critiques* in French of assigned outside reading; lectures in French on the history of comedy. *Prerequisite, 3-4.*

7-8. History of French Civilization. A year's study of the origins and development of the French nation, its political, social, religious, literary, and artistic history. Extensive assigned readings, including both the sources and modern historians, especially Lavisse, Rambaud, Viollet, Lanson, and others. Preparation of papers in French on selected subjects, in alternation with lectures by the instructor. The illustrative material includes maps, plans, photographs, facsimiles, etc. This course is conducted almost wholly in French. *Prerequisite, 5-6.*

9-10. Romance Philology; Medieval Literature. Introduction to the comparative and historical grammar of the Romance languages, with special attention to Old French and Provençal. Reading of selected texts and comparative and historical study of the lyric and narrative poetry of the Middle Ages, especially in Old French and Provençal. Special attention to the Carolingian and Arthurian cycles, their origin and diffusion from the earliest times down to Tennyson and Wagner. *Prerequisites, French 5-6, Latin 3-4.*

Spanish

Associate Professor Super

1-2. Elementary Spanish. Pronunciation, inflection, the laws of syntax and their application. Translation of simple prose; writing from dictation; oral and written exercises in composition. *Open to juniors.*

3-4. Advanced Grammar and Modern Prose. Continued practice in composition, dictation, and oral drill. Translation and sight reading,

with constant reference to morphology and idiom in connection with the text. Representative works of such authors as Cervantes, Alarcón, Galdós, Valera, Valdés. *Prerequisite, 1-2.*

Italian

PROFESSOR SHEPARD

MR. RUSSO

1-2. ELEMENTARY ITALIAN. Pronunciation, grammar, extensive oral drill based on an assigned vocabulary, dictation, and easy composition. First semester: reading of selections from contemporary periodicals. Second semester: modern short stories and plays. *Prerequisite, Latin 1-2.*

3-4. ADVANCED ITALIAN: DANTE AND THE TRECENTO. Syntax; continued practice in dictation, composition, and conversation, based on the texts read. The literary work includes: a survey of Italian literature from its origin to the end of the fourteenth century with lectures and reports by the students on assigned themes; Dante and his times, especially his relations to earlier poetry; the religious and political thought of the Middle Ages; a study of the *Vita Nuova,* of selected *canti* of the *Divina Commedia* and of some of Petrarch's and Boccaccio's masterpieces. Extensive outside reading required. *Prerequisite, Italian 1-2 or its equivalent.* (Not offered in 1919-20.)

ENGLISH LANGUAGE

PROFESSOR RISTINE

1-2. ANGLO-SAXON; MIDDLE ENGLISH. First semester: an introduction to the language and literature of England before the Norman Conquest. Bright's *Anglo-Saxon Reader* is the basis of study, accompanied by lectures on the history, structure, and vocabulary of the English language. Second semester: Chaucer, his century, and his contemporaries. *The Canterbury Tales* are read, parts of the *Troilus and Criseyde* and the minor poems, and selected texts illustrating the various Middle English dialects and literary types. *Open to juniors and seniors.*

HEBREW

PROFESSOR IBBOTSON

1-2. THE ELEMENTS OF HEBREW. Harper's *Hebrew Method and Manual,* and *Elements of Hebrew.* Chapters from *Genesis, Ruth, Samuel,* and *Kings.* Kittel's *Biblia Hebraica. Senior course.*

Group B

RHETORIC AND ORATORY

PROFESSOR LEWIS, ASSOCIATE PROFESSOR RUDD,
AND ASSISTANT PROFESSOR FANCHER

Public speaking in some form is required of every student from the time he enters until he graduates. Theme-writing extends through the first two years; and during the last two, composition, oral and written, is continued in discussions, orations, and debates.

It is believed that the mastery of English cannot best be taught by written method alone. Since the language of daily life is mainly oral, the greater part of the instruction in it is made oral rather than written. The recent movement in the pedagogy of English towards this idea is incorporated in practice.

All courses in this department, except English Composition 5-6 and 7-8, are required, and all are one-hour courses unless otherwise stated.

English Composition

1-2. FRESHMAN ENGLISH COMPOSITION. The study and application of the elementary principles of English composition. The technique of writing. Weekly themes. *One hour a week in the first semester; three hours a week in the second. English Composition 1-2 and Public Speaking 1 constitute a year course. Required of freshmen.*

3-4. SOPHOMORE ENGLISH COMPOSITION. Advanced study and practice. Weekly themes.

5-6. JUNIOR ENGLISH COMPOSITION. Advanced study and practice for those looking forward to journalism, authorship, or English teaching. *Open to juniors. Three hours a week.*

7-8. SENIOR ENGLISH COMPOSITION. A course for selected seniors, who under supervision criticise freshman themes (English Composition 1-2). Each is responsible for the themes of a group of freshmen. There is a conference upon each piece of writing. The results are subject to revision by the instructor. The meetings of the class are occupied with discussions of special forms of writing, and considerable practice work in each form is done. *Three hours a week. Prerequisite, 5-6.*

Public Speaking

1. Elements of Public Speaking. The production and control of the voice, vowel and consonant sounds, the correction of vocal faults. The voice in speech: articulation, pronunciation, force, rate, pitch, timbre, emphasis, inflections, delivery, phrasing. Personality in speaking: physical interpretation, gesture, action. Short speeches (125-200 words) every two weeks. *Two hours, first semester. Public Speaking 1 and English Composition 1-2 constitute a year-course. Required of freshmen.*

3-4. Freshman Declamation. Each freshman appears three times during the year with a prose declamation 350-400 words in length. Three drills are required for each appearance.

5-6. Sophomore Declamation. Each sophomore appears once each semester with a prose declamation 350-400 words in length. Two drills are required for each appearance. The second declamation may be original.

7-8. Junior Declamation. Each junior appears each semester with a speech about 400 words in length. One drill is required for each appearance. The second speech may be a poem selected from some standard author.

9-10. Junior Discussions. Original argumentative orations, 700-900 words in length, on approved propositions, affirmative and negative. Each junior appears once a semester. No drills required.

11-12. Senior Orations. Each senior appears once each semester with an original oration on an approved subject, 800-1000 words in length. No drills required.

13-14 Sophomore Debate. Classroom study of the theory of argumentation and debate, including the analysis of propositions, methods of proof and rebuttal, briefing, and platform practice. Classroom debates.

15-16. Junior Debate. Advanced classroom debates.

17-18. Senior Debate. Advanced classroom debates.

ENGLISH LITERATURE

Professor Ristine

Associate Professor Rudd

1-2. General Introduction to English Literature. A rapid survey of the facts of English literary history from the beginnings, supple-

mented by outside reading, and accompanied by classroom study of the greater English poets, especially Spenser, Milton, Pope, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning. Lectures, recitations, and essays. *Sophomore course.*

3-4. THE SEVENTEENTH AND EIGHTEENTH CENTURIES. First semester: the work includes the seventeenth century lyric; the poetry and prose of Milton; the work of Bunyan, Browne, Dryden, and others; with special stress on the social and political conditions of the time. Second semester: a study of selected masterpieces from the Augustan writers, with wide outside reading in the literature of the century. Special attention to the development of modern prose style, the rise of the periodical essay and the pamphlet, and the beginnings of the novel. *Prerequisite, 1-2.*

5-6. THE ROMANTIC PERIOD AND VICTORIAN ERA. First semester: the poets and prose writers concerned in the revival of imaginative literature between 1780 and 1832, particularly Cowper, Burns, Wordsworth, Coleridge, Lamb, Hazlitt, and DeQuincey. Second semester: a study of as many of the Victorian writers as time permits—Macaulay, Carlyle, Mill, Arnold, Tennyson, the Brownings, Newman, Ruskin—with a course of outside readings in the nineteenth century novel. *Prerequisite, 1-2.*

7-8. SHAKESPEARE AND THE ELIZABETHAN DRAMA. Shakespeare is the center of study for the year. All the plays are read, with critical study of certain dramas representative of the different stages in the development of his art. Lectures on the history of the drama from the beginnings to 1642; collateral reading in the minor Elizabethan playwrights. Library topical work and practice in handling original sources. Term theses required. *Open to seniors who have completed with credit at least one year-course in this department.*

9-10. THE ENGLISH BIBLE AND SEVENTEENTH CENTURY PROSE. The authorized version of the Bible is the subject of study for about half the course, preceded by a review of Elizabethan prose in the work of such men as Fisher, Ascham, North, Sidney, Lyly, and followed by a study of selected prose writers of the seventeenth century. *Open to seniors who have completed with credit one year-course in this department.*

For ANGLO-SAXON and MIDDLE ENGLISH, see under English Language, page 39.

PHILOSOPHY

PROFESSOR SQUIRES

1-2. PSYCHOLOGY; LOGIC. First semester: a general introduction to the study of philosophy and pedagogy. The elements of desciptive, physiological, and genetic psychology. Text-books, lectures, and reports on assigned readings. Second semester: deductive and inductive logic, with rules of evidence as formulated by such writers as Greenleaf or Stephen. *Sophomore course.*

3-4. PLATO TO SPENCER. The problems of philosophy from Plato to Spencer, with emphasis on metaphysics and aesthetics, and the relation of philosophy to current belief. Lectures, papers, and readings from sources. *Junior course.*

5-6. CURRENT PROBLEMS IN PHILOSOPHY; PHILOSOPHICAL CLASSICS. Studies in pragmatism, idealism, realism; in social, abnormal, and experimental psychology; and in advanced logical theory. The reading of Kant's *Critique of Pure Reason,* Locke's *Essay Concerning Human Understanding,* Schopenhauer's *The World as Will and Idea;* or American philosophical writers. *Prerequisite, 3-4.*

7-8. PEDAGOGY. The history, science, principles, and theory of education. The practical problems of education, including methods, teaching, and the reading of educational classics. *Prerequisite, 1-2.*

9-10. ETHICS. The history of ethical systems, followed by the study of ethical classics, such as Kant, Spencer, Nietzsche, and others. *Prerequisite, 3-4 or 7-8.*

TEACHERS' CERTIFICATE. Under the rules of the New York State Education Department, a "Professional Certificate," valid for three years, is granted to a graduate of an approved college. At the end of three years' successful experience in teaching, a "College Graduate Certificate" will be issued, valid for life. This exempts from further examination, except in certain cities. A student who desires this certificate must complete the course in pedagogy approved by the Education Department.

HISTORY

PROFESSOR BONHAM

In every course in this department a text book forms the basis of the student's work. This is supplemented by occasional lectures, note-

books, problems, reports, quizzes, and map-drawing. A considerable amount of library work is required of every student, as a means of introducing him to the literature of the subject, source and secondary. History 1-2 is a prerequisite for all other history courses. Students are advised to take it in the freshman year, both as a preparation for other history courses and a background for the social sciences and literature.

1-2. MEDIEVAL AND MODERN EUROPE. A general survey in which the leading features of medieval civilization are studied, with the evolution therefrom of modern nations and their institutions. *Open to freshmen and sophomores.*

3-4. ENGLAND AND THE BRITISH EMPIRE. A rather detailed study of the rise and development of English institutions, and their spread to other parts of the world. Such items as language, law, parliamentary government, colonization, etc., are stressed. *Prerequisite, 1-2.*

5-6. EUROPE SINCE 1870: THE WORLD WAR. A study of contemporary European civilization, with the underlying causes of the World War, its progress and consequences. *Prerequisite 1-2. Alternates with 3-4.* (Not offered in 1919-20.)

7-8. HISTORY OF THE UNITED STATES. The European background; the establishment of European institutions in America; the struggles for independence; the establishment of the Federal government; the evolution of the American nation. *Prerequisite, 3-4 or 5-6. Alternates with 9-10.* (Not offered in 1919-20.)

9-10. THE UNITED STATES AS A WORLD POWER; LATIN-AMERICA. First semester, a study of the progress of the United States since 1870 "from isolation to leadership"; the war with Spain; America in the Orient; American participation in the World War. Second semester, a survey of the transfer of Spanish and Portuguese institutions to America, the wars of independence, the development of the Latin-American republics, the Monroe Doctrine, the League of Nations, etc. Students are urged to take this course in connection with political science 5-6. *Prerequisite, 3-4 or 5-6. Alternates with 7-8.*

POLITICAL SCIENCE

PROFESSOR WOOD

1-2. MODERN RESPONSIBLE GOVERNMENTS. The government of the United States, national, state, and local, compared with typical foreign

systems, their legal frames, and their actual workings. Party systems. Text-book and library work. *Sophomore course.*

3-4. POLITICAL SCIENCE AND CONSTITUTIONAL LAW. First semester: a further study of European governments. Second semester: the nature and attributes of the State. Sovereignty. Limitations upon government. Nationality. Types of constitutions. Separation of powers. Representation. Suffrage. Function of the judiciary. Some American cases in constitutional interpretation. *Prerequisite, 1-2.*

5-6. INTERNATIONAL LAW AND INTERNATIONAL RELATIONS. The principles of international law and diplomacy. Progress and problems of international organization. European groups. The Monroe Doctrine. The relations of the United States with Latin America, with European powers, and with the Far East. *Open to seniors.*

LAW AND CIVIL POLITY

PROFESSOR DAVENPORT

1-3. THE THEORY AND PRACTICE OF DEMOCRACY. The nature, development, merits, and limitations of democracy, with special attention to the course of popular government in the United States. Nationalism and internationalism, particularly in their bearings upon the American government and people. Lectures and discussions. *First semester, six hours a week. Open to seniors.*

5-ECONOMICS 6. THE ELEMENTS OF LAW; THE LABOR PROBLEM. First semester: the topics covered include the sources, nature, and development of law, the characteristics of the common law and of equity, the rights of the person and of property, contracts, agency, bailments, corporations. Collateral reading from Blackstone's *Commentaries.* Second semester: the Labor Problem. See Economics and Sociology 5-6. *Senior course. Prerequisite, Economics, 1-2.*

ECONOMICS AND SOCIOLOGY

DR. MURPHEY

1-2. PRINCIPLES OF ECONOMICS; ECONOMIC PROBLEMS. First semester: an introduction to economic theory, aiming to give the student a grasp of the fundamental principles underlying modern economic life. Second semester: an elementary study of problems, such as money and

banking, the tariff, the trusts, railroads, and socialism, considered in the light of principles developed in the first semester. *Junior course.*

3-4. SOCIOLOGY. A consideration of the origin and nature of group life, of the nature of progress, and of means of social improvement through collective control of the physical, organic and psychological forces at work in the world. Discussions and laboratory studies of factors of the social mind such as suggestion, imitation, custom, leadership, and discussion. This is followed by a brief study of the early history of man and of the development of social institutions. *Junior course.*

5-6. PUBLIC FINANCE; THE LABOR PROBLEM. First semester: a study of the theory and practice of public expenditure, the budget and budgetary legislation, public revenue from industry and taxation, and public credit. Second semester: a brief summary of the conditions creating a permanent class of wage earners in the modern state, an analysis of the social and economic characteristics of the working class, and an outline of the development and function of labor organizations. Especial attention is given to the problem of the relation of the state to labor, as expressed in factory legislation, minimum wage laws, and workingmen's insurance. *Economics 6 may be elected with Law 5 as a year-course. Prerequisite, 1-2.*

Group C

MATHEMATICS

PRESIDENT FERRY, PROFESSOR CARRUTH,

AND PROFESSOR BROWN

1-2. ALGEBRA; TRIGONOMETRY. First semester: graphical representation, complex numbers, theory of equations, determinants, partial fractions, continued fractions, inequalities, permutations and combinations, probability. Second semester: theory and use of logarithms, definitions and relations of the trigonometric functions of acute angles and of angles in general, the solution of right and oblique triangles. *Required of all freshmen except those who enter with four units of mathematics.*

3-4. ANALYTIC GEOMETRY; DIFFERENTIAL CALCULUS. First semester: an elementary course in plane analytic geometry. Cartesian and polar coordinates, simple curve-tracing, study of the straight line and conic sections. Second semester: differentiation of algebraic and transcen-

dental functions. Simple applications to algebra, geometry, and mechanics. *Prerequisite, 1-2, or four units of entrance mathematics.*

5-6. CALCULUS; ANALYTIC GEOMETRY. First semester: technique of integration. The definite integral, and applications to geometry and mechanics. Further study of differential calculus, including change of variable, partial differentiation, expansion of functions. Second semester: analytic geometry of three dimensions, including a brief discussion of quadric surfaces. Application of calculus to analytic geometry of two and three dimensions. *Prerequisite, 3-4.*

7-8. DIFFERENTIAL EQUATIONS; PROJECTIVE GEOMETRY. First semester: the solution of the simpler types of differential equations, with applications to physics. Second semester: elementary synthetic geometry, involving ranges of the first and second order, and construction. *Prerequisite, 5-6.*

BIOLOGY

PROFESSOR MORRILL

MR. SHIRLEY

1-2. GENERAL BIOLOGY. The observation of living organisms representing the great groups of plants and animals, together with the study of their structure, is used as an introduction to the phenomena of life. After the general study of both plants and animals, attention is focused on animal biology, followed in the second term by the study of plant biology. In the laboratory and lectures emphasis is placed on the function and form of organs as dependent on each other, and on the laws of living organisms. *Prerequisite to all later courses. Laboratory fee, $15.*

3-4. ZOOLOGY; EMBRYOLOGY. First semester: the study of examples of the invertebrate animals is followed by the study of the anatomy of the cat, as a representative vertebrate. This course is valuable as a preparation for the study of comparative anatomy, psychology, or medicine. Second semester: the study of the development of the frog and the chick, supplemented by that of an elasmobranch and a mammal, gives an opportunity to trace the growth of the organs of the body, and serves as an introduction to microscopical technique. *Prerequisite, 1-2. Laboratory fee, $15.*

5-6. ELEMENTARY BACTERIOLOGY; PHYSIOLOGY. First semester: a familiarity with the methods of bacteriology is secured by the study of non-pathogenic bacteria and by an introduction to the technique of water and milk examination. Second semester: the minute structure

of the organs of vertebrates as a basis for the study of physiology. The phenomena of motion, secretion, and excretion are considered. *Prerequisite, 3-4. Laboratory fee, $15.*

CHEMISTRY

PROFESSOR A. P. SAUNDERS

MR. SHIRLEY

All courses in chemistry require two hours in the lecture room and four hours in the laboratory each week, but are reckoned as three-hour courses. The laboratory fees are $10 each semester.

1-2. ELEMENTARY COLLEGE CHEMISTRY. A thorough discussion of the fundamental laws and theories of chemistry, together with a study of the gases, the metals, and the periodic system of the elements. In the lecture room special emphasis is laid on chemical calculations, and in the laboratory a considerable number of quantitative experiments are made, to illustrate the laws of combining proportions, etc.

3-4. ANALYTICAL CHEMISTRY. Theory of solution. Application of the ionization theory to analytical procedure. Study of selected typical gravimetric and volumetric methods. *Prerequisite, 1-2. Alternates with 5-6.*

5-6. ORGANIC CHEMISTRY. Aliphatic compounds. Aromatic compounds. A part of the course is devoted to the chemistry of nutrition, agricultural chemistry, or other selected special topics. *Prerequisite, 1-2. Alternates with 3-4.* (Not offered in 1919-20.)

PHYSICS

PROFESSOR S. J. SAUNDERS

1-2. GENERAL PHYSICS. Elementary mechanics, sound, heat, light, electricity, and magnetism. Lectures and recitations two hours a week, and one two-hour exercise a week in the laboratory. *Open to sophomores.* Laboratory fee, $5.

3-4. MECHANICS, HEAT, SOUND, AND LIGHT. Lectures and recitations. *Prerequisite, 1-2. Alternates with 5-6.*

5-6. ELECTRICITY AND MAGNETISM. Lectures and recitations. *Prerequisite, 1-2. Alternates with 3-4.* (Not offered in 1919-20.)

7-8. EXPERIMENTAL PHYSICS. General laboratory practice. Quantitative work with written reports and discussions of the results of the experiments. *Prerequisite, 3-4 or 5-6. Laboratory fee, $10.*

GEOLOGY

PROFESSOR DALE

1-2. GENERAL GEOLOGY. An introductory course, including studies of the various geological agencies and processes responsible for the past and present surface features of the earth, the general composition and structure of the earth's crust, and the geological history of the earth. Lectures, recitations, laboratory, and field trips. *Open to sophomores. Laboratory fee, $2.*

3-4. HISTORICAL, STRUCTURAL, AND ECONOMIC GEOLOGY. The history and evolution of the earth from its origin to recent times, including the various geographical, structural, and climatic changes through which the earth has passed and descriptions of the characteristic life of each period. Regional geology, with particular emphasis upon structure, stratigraphy, and ore-deposits. Lectures, recitations, laboratory, and field work. *Prerequisite, 1-2. Laboratory fee, $3.*

5-6. MINERALOGY. A descriptive and determinative study of the important rock-forming minerals and others of particular scientific and economic importance, including an introductory course on crystal forms. Lectures and laboratory. *Open to juniors. Prerequisite, Chemistry 1-2 or its equivalent. Laboratory fee, $3.*

7-8. PHYSIOGRAPHY AND ECONOMIC GEOGRAPHY. The description, origin, and interpretation of the earth's surface forms and their influence upon man. The elements of oceanography, meteorology, and climatology. Classroom and field work. *Prerequisite, 1-2.*

PHYSICAL EDUCATION

MR. PRETTYMAN

MR. ZIEL

PHYSICAL EXERCISE. Indoor and outdoor athletics, including football, soccer, tennis, track, ice-hockey, basket-ball, skating, skiing, snow-shoeing, base-ball, calisthenics, and gymnastic work, according to the season and the weather, with special tests relative to health and exercise. Participation in the practice of a college athletic team is accepted as an equivalent. A physician's certificate of physical fitness is required of all undergraduates. *Required of all undergraduates. Two periods a week of one and one-quarter hours each.*

HONORS AND DEGREES

Honors and Commencement Appointments

Department honors may be awarded at graduation in the following subjects or groups of subjects: Greek; Latin; German; French; Italian and Spanish; English Composition; Public Speaking; English Language and Literature; Philosophy; Economics; Political Science; History; Mathematics; Biology; Chemistry; Geology and Mineralogy; Physics. An honor requires the attainment of an average standing of not less than 90 in the courses on which the honor is based, and a complete record of examinations in these courses. Students attaining a standing between 85 and 90 may also receive the honor, but only on a special recommendation by the head of the department, in which case extra work may be required. Usually all the work offered by a department must be taken; but no student is required to repeat in college a course accepted for admission to the freshman class, or to take more than three courses in Philosophy or four courses in Greek, German, French, or English Language and Literature (including English Language 1-2). In English Composition a student must take all the courses offered, and must submit an acceptable prize essay in each of the first three years and an acceptable Pruyn, Head, or Kirkland Oration in senior year. In Public Speaking a student must be an appointee to the Clark Prize Oration contest or to the McKinney Prize Debate.

The names of seniors who have high honor, honor, or credit grades for the senior year and for the entire course are announced at the final chapel of the year. The Valedictorian and the Salutatorian are the two members of the graduating class who have attained, respectively, the highest and the next to the highest standing for the entire course.

Commencement speakers are: the Clark Prize Orator; the Pruyn Medal, Head Prize, and Kirkland Prize Orators; the Salutatorian and the Valedictorian. If any one of these is not appointed, or if two appointments fall to one person, the Faculty may appoint others, not exceeding seven in all, from men of high honor grade and excellent rhetorical record.

Degrees

The only bachelors' degrees conferred by the College are Bachelor of Arts and Bachelor of Science. Detailed information in regard to the requirements for these degrees is to be found on pages 27-28.

The Master's degree may be conferred upon graduates of Hamilton, or of another college with equivalent courses, for residence work of one year. A candidate for this degree must pursue work in two related subjects, in one of which he must submit an approved thesis. His studies and the subject of his thesis must be reported to the Faculty early in the first semester. He must successfully meet the term examinations in his subjects, and at the end of the year an oral examination before a committee of two members of the Faculty. Bachelors not in residence but otherwise fulfilling these conditions may receive the Master's degree in two years upon payment of regular tuition.

Honorary degrees are conferred only upon those who, having accepted advance notification, are present in person to receive them.

The Root Fellowship

THE ROOT FELLOWSHIP IN SCIENCE, established in 1894 by the Honorable Elihu Root, of the Class of 1864, is ordinarily granted for a single year of graduate study at some American

or European university approved for that purpose in each individual instance by the Faculty. It bears a stipend for the year of $500, payable in October, February, and May in equal installments. The payment of each installment of the stipend is conditioned on the submission to the President by the fellow of satisfactory evidence of the successful progress of his studies. In the case of the third payment, this evidence shall consist of a comprehensive written report which shall be filed in the college records. At the request of the Faculty, the fellow shall, on some suitable date between the spring recess and Commencement, give a lecture or address to the College on a subject appropriate to his work of the year.

Any member of the senior class who has proved himself of high order of scholarly attainment and has shown marked ability and special aptitude for research in one or more of the departments of science may be nominated to the Faculty for this award by the professors of those departments. From the men thus nominated, the Faculty will select by ballot by a two-thirds vote one who shall be recommended to the Trustees for appointment.

If the Faculty finds no suitable candidate in the graduating class of any year, it may recommend to the Trustees that the fellow appointed from the preceding class be continued in the fellowship for a second year, but no longer.

Scholarships

General Regulations

There are ninety permanent endowments, which are administered so as to furnish to their incumbents tuition for three years, and for the third year of tenure "ordinary room rental" ($9 a term) to incumbents who are lessees of dormitory rooms. A few of the scholarships are subject to special provisions.

No student may at one time hold more than one prize scholarship, and no student while holding a prize scholarship may be awarded a general college scholarship.

Applications, which should be made to the President in writing, are considered in their order. The President must be personally assured of the fidelity and actual need of applicants. Ordinarily the benefits of these foundations are assigned to needy and meritorious students who have been orderly and diligent and who are without entrance conditions, postponed examinations of long arrears, or delinquencies. Scholarships are not granted to special students. If an incumbent is extravgant, or is guilty of any gross impropriety, or neglects to stand above mediocrity, the aid will be summarily withdrawn. This rule applies to all scholarships, including the prize scholarships.

The state of New York provides in each assembly district five competitive college scholarships, based upon standing in Regents' examinations, and yielding $100 annually for four years. Successful competitors may enter any college within the state. A state scholarship, primarily covering tuition, is not ordinarily duplicated by a general college scholarship.

Approved candidates for the Christian ministry who need aid, may receive from $80 to $100 a year by placing themselves under the care of the Presbyterian Board of Education, the Congregational Educational Society, the Board of the Reformed Church, or other church authorities.

Scholarship Foundations

The amount of each foundation is $2,000, unless otherwise stated.

25 Founded by Andrew Carnegie.
1 Leavenworth (for a student of that name), $10,000.
1 Kellogg and Clark.
1 Marcus Judson, $1,900.
1 Vischer and Nichols, $1,748.

1 S. B. Steere (for a relative or for five others), $10,000.
6 Laura Carter.
5 Julia J. McCartee, Darling Memorial.
5 William E. Dodge.
2 S. H. Jardin.
2 Marquand Estate.
2 Theodore S. Hubbard, $3,500.
2 Horace B. Silliman, $3,000.
1 Mrs. S. E. Beard, $5,000.
1 Charles D. Gilfillan, $2,500.
1 John R. Terrett Memorial, by A. P. Sloane.
1 D. Willis James.
1 Sylvester Willard Memorial.
1 Henry W. King.
1 Mrs. James L. Bradley.
1 J. B. Wells.
1 Alexander Folsom.
1 Allen and McCall.
1 Richard S. Cowles.
1 Lamberton and Merriam.
1 Alling and Ellinwood.
1 Roswell P. Flower.
1 Geneva Presbytery, $1,700.
1 C. C. Sheppard, $1,500.
1 William Burton, $1,500.
1 John J. Knox, $1,500.
1 James Seymour, $1,500.
1 Carlton Rogers, $1,000.
1 Powers and Mather, $1,000.
1 P. Charles Cole, $1,000.
1 Henry Duguid, $1,000.
4 Soper Scholarships (for Rome scholars), $10,000.
1 Albert C. Phillips.
4 Melville E. Dayton Memorial (for Utica Free Academy scholars).
1 Mrs. Charlotte B. Sackett Memorial, $10,000.
1 Charles Holland Duell, $10,000.
4 Asa G. Pettibone.
3 W. D. Walcott.
1 Henry Scott McCall, $1,000.
2 J. Platt Underwood, $3,000.
1 James P. Soper, $2,000.

Three other scholarship foundations are semi-proprietary or reserved for increment.

The quadrennial Clarence A. Seward scholarship, yielding $560, is awarded to some member of the Alpha Delta Phi Society under conditions set by its authorities.

Senior Prize Scholarships

Four prize scholarships are awarded by vote of the Faculty at the close of junior year, as follows:

The Chauncey S. Truax Prize Scholarship in Greek, yielding $350 to that senior who, having entered Hamilton as a freshman with unconditioned preparation in three years of

Greek, shall have stood highest in the Greek work of the first three years with an average grade of not less than 85.

The Edward Huntington Memorial Mathematical Scholarship, founded by Alexander C. Soper, A.M., '67, yielding $250.

The Arthur W. Soper Latin Scholarship, yielding $250.

The German Scholarship, founded by the Hon. Charles Holland Duell, LL.D., '71, yielding $250.

The awards are made in the order, first, of the values—should these vary—and, second, of the ages of the foundations.

Each scholarship is awarded to the student of highest standing in the department in which it is offered, unless another of these scholarships is already assigned to him. In this case the award is made to the next highest in the department who has not received an award. To be eligible a student must have taken all the courses of the department concerned up to the end of junior year, including prize examinations, and upon receiving an award must elect the courses of the department through senior year. Eligibility for the Griffith scholarship and for the A. W. Soper scholarship must include the Curran Prize Examination in Greek and Latin. To receive the stipend, an appointee must complete senior year in this college and pay in full the college bills of that year.

Junior Prize Scholarships

The Oren Root Prize Scholarships. Two scholarships, of $100 each, are awarded to the two juniors who have the best record in mathematics during the freshman and sophomore years. To be eligible for the award a student must elect mathematics through junior year.

Freshman Prize Scholarships

The Fayerweather Scholarships. Five scholarships, yielding $100 each for the freshman year, are awarded to five men of the freshman class, provided there are five, who gain the highest marks in the entrance examinations at the College in September on fourteen and a half units of secondary school studies, as specified under Requirements for Admission. A competitor who fails in any unit may not receive an award. Freshmen admitted in June may enter this September examination. Appointees to these scholarships are eligible to the Maynard and Brockway Entrance Prize competition (see "Prizes", 19, 20).

The John W. Vrooman Scholarship, yielding $100 for the freshman year, is awarded to the candidate who in September passes, with a grade of 70 or higher, the best oral examination at the College upon the Greek text of the *Gospel of Luke* and upon Homer's *Iliad,* Books 1-3. The *Gospel of Luke* is accepted for entrance in place of Books 2-4 of the *Anabasis.* Approved certificates are accepted for Book 1 of the *Anabasis,* Greek prose composition, ancient history, and other specified parts of the preparation. To receive the award a candidate must enter without a condition. A competitor for this scholarship may also enter the Maynard and Brockway Entrance Prize competition (see "Prizes," 19, 20) by taking examinations in the other subjects which he offers for admission.

Prizes

Regulations Governing Prize Essays and Orations

All papers in any competition must be upon subjects assigned by the Faculty, and must be left with the President at a given day and hour. They must be typewritten upon one side of sheets about eight by eleven inches, with broad margins for

binding. Pages must be properly numbered and fastened securely; they must not be rolled or folded. Each hundred words must be indicated by numbers in the margin. Each paper must be signed with a fictitious name, and accompanied by a sealed envelope similarly marked and containing the name of the author.

Papers not conforming to these requirements and papers submitted late will be returned to the writers without credit. Prize orations must not be published before they are spoken. Successful papers become the property of the Library.

Orations and essays are judged upon absolute as well as relative merit. Lack of competition does not prevent an award, nor does abundant competition assure an award if no competing paper merits it.

Prizes are conferred only upon those present to receive them on commencement day, unless excuses for absence have been granted by vote of the Faculty. Applications for excuse must be presented through the Dean in writing before the final Faculty meeting on Tuesday preceding commencement day.

Prize Foundations

1. Clark Prize Oration. A foundation of $1,000, begun by the late Aaron Clark, of New York, and increased by the late Henry A. Clark, '38, of Bainbridge, furnishes a prize for the senior excelling in original oratory.

Competition is open to seniors who have had appointment as prize speakers and whose work has not subsequently deteriorated, and to the additional one-fifth of the senior class who have the next highest record in speaking in Tuesday and Saturday rhetoricals after the beginning of junior year. The list of those eligible is posted by the second Friday of December.

Orations may contain not more than fifteen hundred words, and must be left with the President before noon of the first Wednesday in March. They are considered by the Reading Committee of the Faculty, who determine the six best orations, regardless of subject, provided there be six of sufficient merit. The names of successful competitors are announced at the morning chapel on the day following the award by the Faculty.

The orations are delivered on the Wednesday evening nearest to June 1. The prize is awarded by vote of the Faculty at the close of the exhibition, and is then announced.

Subjects, 1920: Paderewski—Artist and Statesman; The Nation's Debt to Roosevelt; The Far East—the Arbiter of the World's Destiny; Repudiation of Law—the World Menace; The Passing of Sovereignty; The Autocracy of Labor; The Goal of American International Leadership; Athens or Carthage—Which Shall Guide Us?

2. Pruyn Medal Oration. A foundation of $500 by the late Chancellor John V. L. Pruyn, of Albany, furnishes a gold medal for the senior writing the best oration on "The Political Duties of Educated Young Men."

Subject, 1919: The College Man and Reconstruction.

3. Head Prize Oration. A foundation of $1,000 by Franklin H. Head, LL.D., '56, of Chicago, Ill., furnishes a prize for the senior writing the best oration upon a theme relating to Alexander Hamilton.

Subject, 1919: The Secret of Hamilton's Power.

4. Kirkland Prize Oration. A foundation of $500 by the late Mrs. A. R. Kirkland, of Clinton, furnishes a prize for the senior writing the best oration upon a theme in Biblical science.

Subject, 1920: Moses.

Orations submitted by competitors in Pruyn, Head, and Kirkland contests may contain not more than twelve hundred words, and must be left with the President before noon of the

first Saturday following the Easter recess. A senior may receive not more than one of these awards, though he may write on more than one subject. Each prize oration is delivered at the commencement exercises.

5. McKinney Prize Debate. A foundation of $1,500 by the late Charles McKinney, of Binghamton, furnishes two prizes of $50 and $25 for seniors excelling in extemporaneous debate.

The proposition for debate is chosen by the Professor of Rhetoric and Oratory and submitted to the Faculty for approval not later than April 1. It is announced to the College at the next morning chapel following its approval.

The prize debaters are the six seniors whose average standing in argumentation and debate is highest for the entire course. The grades to be considered in choosing these contestants are reported to the Registrar at the end of the eighth week of the second semester. Within a week thereafter the Registrar presents to the Faculty the names of the six men eligible for appointment, and the announcement of their appointment is made at the next morning chapel after their approval by the Faculty. Within a week from this announcement the debaters meet the Professor of Rhetoric and Oratory and determine sides and order of speaking for the debate.

The Prize Debate is held on Friday evening of commencement week, at eight o'clock. Each debater on his first appearance may speak nine minutes; on his second six. Notes may not be used in the debate. The award is made by a committee of five, not members of the Faculty, and is announced at the close of the debate. In making the decision, the judges determine (1) the stronger side of the argument as presented, and (2) the best and the second best debaters. These receive the prizes of $50 and $25 respectively.

Subject, 1919: The Drago Doctrine should be incorporated in International Law.

6. Soper Prize Thesis. A foundation of $1,500 by the late Arthur W. Soper, of New York, furnishes a prize of $75 to the senior submitting the best thesis in advocacy of a protective tariff.

The thesis subject for each class is announced toward the end of sophomore year. Theses are not limited as to length. They must be left with the President before noon of the second Thursday in October of senior year. They are judged by a committee chosen by the Faculty from outside their own number. The decision is made public early in second term, and the prize is awarded upon commencement day, upon condition of the winner's graduation.

Subject, for the Class of 1921: American Tariff Policy in Relation to the Dye Industry.

7. Underwood Prize in Chemistry. A foundation of $500 by the late George Underwood, '38, of Auburn, furnishes a prize for the senior who excels in chemistry.

8. Southworth Prize in Physics. A foundation of $500 by the late Tertius D. Southworth, '27, furnishes a prize for the senior who excels in physics.

9. Darling Prize in American History. A foundation by the late Charles W. Darling of Utica, supplemented by a friend of the College, furnishes a prize of $35 for the senior having the best record in the courses in American History offered to his class.

The Frederick W. Putnam Prize in American History. The gift of Dr. Frederick W. Putnam of Binghamton, supplemented by a friend of the College, furnishes a prize of $20 for the senior having the second best record in the courses in American History offered to his class.

10. WARFIELD GERMAN PRIZE. By Frederick P. Warfield, '96, of New York, a prize of $50 is offered to senior competition for excellence in German.

11. TOWER PRIZES IN SPANISH AND IN FRENCH. By the Hon. Charlemagne Tower, LL.D., of Philadelphia, two prizes of $50 each are offered to seniors for excellence in Spanish and in French respectively.

12. TOMPKINS MATHEMATICAL PRIZES. A foundation of $1,200 by Hamilton B. Tompkins, A.M., '65, of New York, provides two prizes and four medals for juniors who excel in mathematics.

The award is made upon the basis of an examination early in June, involving the mathematics of sophomore and junior years.

13. CURRAN PRIZE IN GREEK AND LATIN. A foundation of $700 by relatives of the late Col. Henry H. Curran, '62, of Utica, furnishes a prize in Greek and Latin, offered to juniors, the prize consisting of money and a bronze medal, commemorative of Col. Curran. The award is determined by written examinations in Greek and Latin. The competition in a given year is based upon courses 7-8, 9-10, or 11-12 in Greek, and upon course 5-6 in Latin.

14. HAWLEY PRIZES IN GREEK AND LATIN. A foundation of $500 by the late Martin Hawley, '51, of Baltimore, Md., furnishes two book prizes, equal in value, one for excellence in Greek, and one for excellence in Latin. The competition is open to any student completing a second year of college work in either language.

15, 16, and 17. KELLOGG ESSAY PRIZES, COBB ESSAY PRIZE, AND HUTTON ESSAY PRIZE. A foundation of $700 by the late Charles C. Kellogg, '49, of Utica, furnishes book prizes for two juniors, one sophomore, and two freshmen who excel in

English essays. A foundation of $500 by the late Willard A. Cobb, '64, of Lockport, furnishes a book prize for the sophomore submitting the best essay on "Journalism". A foundation of $500 by the late William Hutton, D.D., '64, of Philadelphia, furnishes a prize of $25 for the sophomore submitting the best essay on an assigned subject in Biblical history.

One subject is assigned for each prize offered. A competitor may write on more than one subject, but he may receive only one award in any year. An award does not bar a student from competition in a subsequent year.

Essays may contain not more than thirty-five hundred words, and must be left with the President before noon of the first day following the Easter recess. They are considered by a committee chosen by the Professor of Rhetoric and Oratory.

One prize may be awarded for each subject announced, provided there is a competing essay deserving an award; and honorable mention may also be made of a second best essay on each subject. Prizes are awarded on commencement day.

Subjects, 1920: Juniors, Traits of Irish Life and Character as Portrayed in the Plays of Synge and Lady Gregory; H. G. Wells, an Exponent of Contemporary England. Sophomores, Pendennis—an Undergraduate's Estimate; Journalism (Cobb); Woman in the Old Testament (Hutton). Freshmen, Central New York in the Revolutionary War; The American Indian as Portrayed by Parkman.

18. McKinney Prize Declamation. A foundation of $700 by the late Charles McKinney, of Binghamton, furnishes book prizes for the two students in each of the three lower classes who excel in declamation.

Four contestants are annually chosen from each of the three lower classes upon the basis of their record in Tuesday rhetoricals up to the time of appointment. The competition is held in the College Chapel on the Thursday afternoon of commence-

ment week. The award is made by a committee chosen by the Professor of Rhetoric and Oratory.

19. MAYNARD ENTRANCE PRIZE. A prize of $100 is offered annually by Reuben Leslie Maynard, A.M., '84, of New York, N. Y., to that freshman who shall have passed the best entrance examinations in all the subjects of an admission group at the College in September, shall prove himself of good conduct and character in the College, and shall gain an average grade of "high honor" in his work through the freshman year.

20. BROCKWAY ENTRANCE PRIZE. A foundation established by the late Dr. A. Norton Brockway, '57, provides a prize of $25 annually which is offered to the freshman who shall have passed the second best entrance examinations in all the subjects of an admission group at the College in September and shall complete the work of the freshman year in an orderly manner.

21. HOLBROOK PRIZE. A foundation of $1000 given by the late David A. Holbrook, of the Class of 1844, furnishes a prize to be awarded by the President and Trustees of the College. The details of the award will be announced later.

GENERAL INFORMATION

Situation

The College is located at the very center of New York State, in the county of Oneida, one mile from the village of Clinton. Nine miles to the northeast lies the city of Utica, on the main line of the New York Central, accessible from Clinton both by trolley and by the New York, Ontario & Western railroad.

The College occupies a natural plateau nine hundred feet above the sea and three hundred feet above the immediate valley. Its campus is a park of ninety-five acres, shaded by venerable trees, with an easterly exposure, overlooking the Oriskany and Mohawk valleys. Its eighteen buildings, arranged in quadrangles, are modern and adequate, and with two exceptions are constructed entirely of stone. The naturally healthful conditions secured by the elevation and by air exceptionally pure and dry, are supplemented by a private water supply from spring-fed reservoirs above the College, and by an extensive system of sanitation, constructed in accordance with the best modern practice and officially approved by the state authorities.

Buildings

Dormitories—Three dormitories afford exceptional accommodations for the greater part of the student body. Carnegie Hall (1904) and South College (1906) together receive about 120 men. They are fire-proof and equipped with steam heat, broad fireplaces, hardwood floors, electric light, and bathrooms. North College (1842), now extensively improved, affords simpler accommodations for 54 men at more moderate rental.

All rooms are arranged in suites, which are restricted to two or three occupants. No deduction is made in the rental if a suite is occupied by less than the designated number of men. Occupants provide their own furnishings; but full care of room is included in the rental. All rooms are leased for the academic year only, and the buildings are closed during vacations. Fuller details and the rules governing the leasing of rooms may be obtained from Edward M. Coughlin, the Bursar of the College.

Science and Recitation Halls—Three buildings are devoted to the work of the scientific departments. Root Hall of Science (1897) houses the departments of physics, mathematics, and biology, with an entire floor for each. The Chemical Laboratory (1903), a two-story stone building, is devoted exclusively to the department of chemistry. Knox Hall (remodelled 1885) contains the Museum of Natural History, with the lecture rooms and laboratory for mineralogy and geology. Benedict Hall of Languages (1897) and Truax Hall of Philosophy (1900) provide ample recitation rooms for all other departments of instruction. All buildings are lighted by electricity.

Chapel and Y. M. C. A.—The Chapel (1828, enlarged 1897), occupying the central site on the campus, is the home of the religious life of the College. It contains a fine organ and memorial windows. Here are held public lectures and the commencement exercises. It is also the College Church. Silliman Hall (1889), at the west end of the campus, accommodates the Young Men's Christian Association and furnishes a meeting place for the students.

Commons—The Soper Commons (1903), a dignified Gothic dining hall, has accommodations for furnishing table board to two hundred students. It is the center of the collective social life of the College. Here are held college dinners, large undergraduate gatherings, and the alumni luncheon at commencement.

GYMNASIUM AND ATHLETIC FIELD—The Soper Gymnasium (1891, remodeled 1912) is equipped to afford complete facilities for indoor training. The ground floor contains the director's office, a large locker room with two hundred steel lockers, dressing rooms, showers, and a swimming pool. The main exercising room above is fitted with an oval running track, handball and basketball courts, and wall and floor apparatus.

The Steuben Athletic Field, adjoining the main group of buildings, has tennis courts, soccer field, and baseball diamond. A new football field, quarter-mile track, and 220-yard straightaway were completed in 1919. An additional field for soccer and baseball is now available. During the winter a rink is provided for skating and ice-hockey.

LIBRARY—The new Library (1914) is a substantial fire-proof building, well adapted to the needs of the College. It has a large reading room, 30 by 65 feet in size, with an open stack room adjoining, accommodating a selected students' library of about 10,000 volumes; a main stack room with a capacity of 120,000 volumes; several seminar rooms and studies for the use of students and faculty; and a memorial hall containing the college collection of portraits and objects of historical interest.

The Library is open every college week-day from eight to twelve-thirty, from one-thirty to six, and from seven-thirty to ten; on Sundays from two till six; and in vacations daily from ten to twelve. Instruction is given to new students in the use of the catalogues and reference books, and in methods of working in the Library. Under certain restrictions students are admitted to the stacks.

At present the Library contains about 84,000 volumes and 23,000 pamphlets. It is card-catalogued both by authors and by subjects. About 225 current periodicals and serials are received. Special endowments, supplemented by appropria-

tions from the general funds of the College, provide for its growth. There were added 4,759 volumes during the year of 1918-19. In the selection of books primary regard is given to the wants of the several departments of instruction; but recommendations for the purchase of books of general interest, or such as any student desires for his own reading, always receive attention and are acted upon favorably if possible.

Scientific Collections

The Museum of Natural History, located in Knox Hall, contains valuable scientific collections, the most important of which are classified as follows:

GEOLOGY AND MINERALOGY: 2,500 specimens of fossils and rocks to illustrate the geology of New York; 2,000 specimens of fossils and rocks to illustrate the geology of the United States; 600 fossils, mainly from the early paleozoic formations of Europe; 2,000 or more valuable specimens of fossils and minerals, the gift of John D. Conley, '69; 1,000 fossils, mainly from the early paleozoic formations of New York, the gift of Egbert Bagg of Utica; 1,000 ores, building stones, and other minerals of economic value, from many important mining regions of the world; 10,000 minerals from many parts of the world, but especially from New York, largely accumulated by Dr. Oren Root, Sr. One special collection is named "The Oren Root Collection of New York State Minerals," containing many unusual specimens, some of which are the finest known of their several kinds.

BIOLOGY: The Barlow collection, comprising 13,000 insects, presented by the late Hon. Thomas Barlow, of Canastota, supplemented by fine groups of birds and mammals; 500 other specimens of birds well mounted and labeled; 3,000 land, fresh-water, and marine shells, accurately classified and arranged; a collection of Japanese shells and insects, presented by Rev. Henry Loomis, '66; the extensive Herbarium of the late Dr. H. P. Sartwell, of Penn Yan, well known as a fine exhibition of North American flora; a large and valuable collection of butterflies, presented by Benj. W. Arnold, '86, of Albany; three cases filled with modern sea-weeds, sponges, corals, star-fishes, crustaceans, etc.

In addition, there is a collection of about 2,000 Indian relics, especially arrow-heads, from many parts of the United States, and many miscellaneous objects of interest.

Medical Service

RESIDENT PHYSICIAN. By arrangement of the Board of Trustees, Dr. Roy B. Dudley of Clinton, a physician of many years of successful experience, is regularly available to all officers and undergraduates of the College at his office in Silliman Hall from 8:15 to 8:30 a. m. on week-days and from 10 to 10:15 a. m. on Sundays.

INFIRMARY. Through the kindness of the Young Men's Christian Association, a suite of three rooms in Silliman Hall has been made available for use as a hospital ward. In the largest of these rooms are three or four beds, while a smaller room will serve as a contagious ward when occasion demands.

A foundation, known as the Robert Macalister Farrell Nursing Fund, donated by Dr. Thomas H. Farrell of Utica in memory of his son, is to be applied toward the cost of hospital care for undergraduates.

Religious Instruction

The College, while under no denominational control, is distinctly Christian, and regards divine worship as a regular part of the life of its students. It avows its historic debt both to the Christian faith and to the patriotic devotion of its founders, and treats the devout recognition of God, revealed in His world and His word, as elemental and indispensable in the development of true manhood.

As a regular college exercise there is held in the Chapel each week-day morning at eight a brief service, with Bible reading,

song, and prayer. Each Sunday morning at half-past ten o'clock there is public worship, at which all members of the College are regularly required to be present. The college preachers for the year 1918-1919 were:

Rev. Ambrose W. Vernon, D.D., Harvard Church, Brookline, Mass.

The Rt. Rev. Charles Fiske, D.D., LL.D., Bishop Coadjutor, Syracuse, N. Y.

Rev. Henry W. Maier, New Britain, Conn.

Rev. Eugene S. Pearce, Rome, N. Y.

Rev. Samuel K. Piercy, White Plains, N. Y.

Professor Arthur S. Hoyt, D.D., Theological Seminary, Auburn, N. Y.

Rev. Charles McKenzie, D.D., Johnstown, N. Y.

Rev. Paul M. Strayer, D.D., Rochester, N. Y.

Rev. Octavius Applegate, D.D., Utica, N. Y.

President Alexander Meiklejohn, LL.D., Amherst College, Amherst, Mass.

Rev. Louis G. Colson, Camden, N. Y.

Rev. Carl W. Scovel, Cortland, N. Y.

Rev. William L. Sawtelle, D.D., Scranton, Pa.

Rev. George B. Swinnerton, Oneida, N. Y.

Rev. Frederick W. Palmer, D.D., Auburn, N. Y.

Rev. Frank W. Moore, Theological Seminary, Auburn, N. Y.

Rev. Anthony N. Petersen, Scarborough, N. Y.

Rev. Warren S. Stone, Rochester, N. Y.

Rev. David H. Craver, Geneva, N. Y.

Rev. Neil McPherson, D.D., Springfield, Mass.

Rev. John A. MacIntosh, D.D., Springfield, Mass.

Professor William J. Hinke, D.D., Theological Seminary, Auburn, N. Y.

Professor James S. Riggs, D.D., Theological Seminary, Auburn, N. Y.

Rev. Nathaniel McGiffin, D.D., Fremont, Neb.

President Elmer Burritt Bryan, LL.D., Colgate University, Hamilton, N. Y.

Professor Harry Lathrop Reed, D.D., Theological Seminary, Auburn, N. Y.

Dean William Henry Crawshaw, LL.D., Colgate University, Hamilton, N. Y.

Ex-President M. Woolsey Stryker, D.D., LL.D., Rome, N. Y.
Rev. Willard P. Soper, Jersey City, N. J.
Rev. Samuel V. V. Holmes, D.D., Buffalo, N. Y.
Rev. Willis H. Butler, Boston, Mass.
Rev. Charles G. Sewall, Rye, N. Y.
Rev. Henry White, Youngstown, Ohio.
Rev. Sylvanus S. Davies, Ogdensburg, N. Y.
Rev. Robert Russell Wicks, D.D., Holyoke, Mass.

Every Christian man entering the College is urged to become a member of the College Church, by letters either of commendation or of transfer. The Lord's Supper is celebrated three times in the college year.

The Young Men's Christian Association maintains an active and influential life. Under its direction voluntary religious meetings and courses of special Bible study are conducted for each college class.

Myers Lectures

Under a memorial endowment established by the mother of the late John Ripley Myers, '87, public lectures on subjects of general interest are given annually before the College by persons of distinction. During the year 1918-1919 lectures upon this foundation were delivered as follows:

VLADISLAV R. SAVIC — February 19
The Adriatic Problem.

MOISSAY JOSEPH OLGIN, PH.D. — March 6
Revolutionary Russia.

SHANE LESLIE, M.A. — April 2
Literary Ireland.

CAPT. ALAN BOTT — April 28
Flying for Allenby in Palestine.

Student Organizations

GENERAL ASSOCIATION FOR UNDERGRADUATE ACTIVITIES—The following student organizations are included in the General Association for Undergraduate Activities: the athletic teams, intramural sports, the musical clubs, the dramatic club, and intercollegiate debating. The control of these various organizations, under the general rules laid down by the Faculty, is in the hands of a council or executive board of the General Association, consisting of three undergraduates, three members of the Faculty, and three alumni. A faculty member is treasurer, and through him all receipts and contributions from whatever source are received and all expenditures made.

Membership in the General Association is open to both undergraduates and alumni on the payment of an annual tax. This tax for undergraduates cannot be more than $15. Payment of this fee is optional, but expected of every student who is able. Alumni become members by subscribing annually any amount they choose, in return for which they receive an annual ticket of admission to all games and entertainments given by any of these college organizations, either at home or elsewhere. All games and entertainments on College Hill are free to undergraduates.

LITERARY CLUBS—Several study clubs help to bring the members of the college community into closer personal touch. These, the German Club, the French Club, the Latin Club, and the English Literature Club, are directed by the heads of the departments concerned, and meet weekly or fortnightly.

PUBLICATIONS—The student publications are *Hamilton Life,* a weekly; the *Hamilton Literary Magazine,* a monthly; and the *Hamiltonian,* an annual. The *Blue Book,* a handbook of general college matters, is distributed each fall by the Y. M. C. A.

Expenses

Annual college charges include the following:

FOR ALL STUDENTS

Tuition	$90
Contingent charge	30
Undergraduate Activities, not more than	15

FOR RESIDENTS OF THE DORMITORIES

Room rent in	
Carnegie Hall	$84
South College	75
North College	50 to 60
Electric light, by meter, about	8

The Soper Commons is organized cooperatively under the supervision of the Manager. The price of board during the year 1918-19 was $5.50 a week.

Living expenses for students who room and board in society houses or elsewhere may vary slightly from the figures given above. The cost of furnishing dormitory rooms may be from $30 to $80 for each occupant. Laboratory fees are charged in some scientific courses, ranging from $3 to $20 for the year. The graduation fee is $10. A student's additional expenses will necessarily be governed by his tastes, resources, and appreciation of the value of money.

All college bills, including bills for board in Commons Hall, are payable semi-annually in advance. The Trustees instruct the Bursar to report the names of all students who at the end of the tenth day of each term are delinquent in the payment of their fees, and the President is instructed to exclude such students from classes until payment is made. Absences thus incurred are not excused. Voluntary or careless damage done

to college property is an extra charge to the individuals or classes responsible. If these are not known, the charge is assessed upon the whole student body, *pro rata*. No deduction in tuition fees is made for absence, either in case a student returns to a class which he has left, or enters late, or is absent under discipline, or is dropped. No student can receive a degree or honorable dismissal whose college bills are unpaid.

Directory

The post-office address of the College is Clinton, New York.

The railroads are: the New York, Ontario & Western, Utica Division, and the New York State Railways (electric), Clinton line. Electric cars leave Utica at a quarter before and a quarter past the hour; they leave Clinton on the even hour and half-hour.

Adams Express via the N. Y., O. & W. R. R. Electric Express from Utica.

All correspondence should be addressed to the President.

DEGREES, HONORS, AND PRIZES

1918–1919

Degrees in Course

Bachelor of Arts

Harold Haggerty Ackler
John William Bratton
William Wright Briggs
Frank Carl Colridge
Leonard Cuthbert Ferguson
James Sherrill Fursman
Norman Curtis Giddings
Paul Mahlon Hamlin
Charles Eugene Harbordt
William Leo Huntsman
Oliver Wesley Hutchinson
Philip Caryl Jessup
William Melville McLean, Jr.
Barton Duncan Miller
Gardner Fenner Parks
Roswell Roy Perkins
Albert Hopkins Pierce
Harold Harper Reed
Daniel LeRoy Shirley
Theodore Hawthorn Skinner
Ralph Edmund Spinning
Andrew Waldron Stone
Chester Hodge Stratton
Rushmore Rowley Valentine
James Barlow White
Frederic George Yeandle

Honorary Degrees

Doctor of Divinity

Robert Russell Wicks, Holyoke, Mass.

Doctor of Letters

Melancthon Woolsey Stryker, Rome, N. Y.

Doctor of Laws

Robert Weeks De Forest, New York, N. Y.

Honors

Scholarship Honors for the Course

Class of 1919

High Honor

Oliver Wesley Hutchinson, *Valedictorian*
Chester Hodge Stratton, *Salutatorian*
Philip Caryl Jessup
Theodore Hawthorn Skinner

Honor

Norman Curtis Giddings
Albert Hopkins Pierce
Frederic George Yeandle

Credit

John William Bratton
Leonard Cuthbert Ferguson
Paul Mahlon Hamlin
Roswell Roy Perkins

Scholarship Honors for the Year 1918-1919

Class of 1919

High Honor: Messrs. Hutchinson, Skinner, Stratton.

Honor: Messrs. Bratton, Giddings, Hamlin, Jessup, Pierce, Reed.

Credit: Messrs. Ackler, Briggs, Miller, Parks, Perkins, Shirley, White, Yeandle.

Class of 1920

High Honor: Messrs. Couper, Meritt, Thorp.

Honor: Messrs. D'Amico, Gorman, Kaiser, Rice, Rosenthal, A. R. Thompson, Turner.

Credit: Messrs. Barnett, Beeman, Cairns, Covey, Elliott, Foss, Jewett, MacLachlan, Neff, Ritterbush, Salbitano.

Class of 1921

High Honor: Messrs. Fry, Rodgers.

Honor: Messrs. Campbell, Finegan, Forshay, Gapp, Hopkins, Kaiser, Keehn, Lopardo, Mathewson, Pierce, Throop, Weller, Wettel.

CREDIT: Messrs. Barron, Bartlett, Coupe, Cowan, Jennings, King, McVay, May, Reid, Van Kennen.

Class of 1922

HONOR: Messrs. Eckler, R. G. Reeder, Smalley, F. W. Smith, K. B. Turner, R. E. Turner.

CREDIT: Messrs. Alfange, Baker, L. E. Davis, Forshay, George, Mason, Perry, R. J. R. Reeder, A. Smith, Westbrook.

DEPARTMENT HONORS

Class of 1919

GREEK: Norman Curtis Giddings, Oliver Wesley Hutchinson.

GERMAN: Chester Hodge Stratton.

FRENCH: Norman Curtis Giddings.

Prizes

ROOT FELLOWSHIP: Roswell Roy Perkins.

LOCKE FELLOWSHIP: Oliver Wesley Hutchinson.

CHAUNCEY S. TRUAX GREEK SCHOLARSHIP: Benjamin Dean Meritt.

EDWARD HUNTINGTON MATHEMATICAL SCHOLARSHIP: Theodore Sheldon Turner.

ARTHUR W. SOPER LATIN SCHOLARSHIP: Edgar Williams Couper.

CHARLES HOLLAND DUELL GERMAN SCHOLARSHIP: William Willard Thorp.

OREN ROOT MATHEMATICAL SCHOLARSHIPS: William Henry Forshay, Allen Eaton Throop.

SIXTY-FOURTH CLARK PRIZE ORATION: Philip Caryl Jessup. The other appointees to the contest: Messrs. Bratton, Hamlin, Hutchinson, Skinner.

FIFTY-SEVENTH PRUYN MEDAL ORATION: No competition.

FIFTY-SIXTH HEAD PRIZE ORATION: Theodore Hawthorn Skinner.

FORTY-SEVENTH KIRKLAND PRIZE ORATION: No competition.

FIFTY-FIRST MCKINNEY PRIZE DEBATE: No competition.

TWENTY-SEVENTH SOPER PRIZE THESIS: No competition.

UNDERWOOD PRIZE IN CHEMISTRY: Daniel LeRoy Shirley.

SOUTHWORTH PRIZE IN PHYSICS: No award.

DARLING PRIZE IN AMERICAN HISTORY: No award.

PUTNAM PRIZE IN AMERICAN HISTORY: No award.

WARFIELD PRIZE IN GERMAN: Chester Hodge Stratton.

TOWER PRIZE IN FRENCH: Norman Curtis Giddings.

TOWER PRIZE IN SPANISH: Chester Hodge Stratton.

TOMPKINS MATHEMATICAL PRIZES: *First,* Benjamin Dean Meritt; *Second,* Edgar Williams Couper; *Medals,* Samuel Budd Cairns, Theodore Sheldon Turner.

CURRAN PRIZE IN GREEK AND LATIN: No competition.

HAWLEY PRIZE IN GREEK: Franklin Clark Fry.

HAWLEY PRIZE IN LATIN: Horace Bertram Weller.

KELLOGG ESSAY PRIZES:

Juniors: *Subject,* "Samuel Pepys as a Dramatic Critic." *Prize,* Edgar Williams Couper.

Sophomores: *Subject,* "John Masefield." *Prize,* Joseph Brown Rodgers.

Freshmen: *Subject,* "Social Life in Colonial New York." *Prize,* Clement Graham Martin.

COBB ESSAY PRIZE: No award.

HUTTON ESSAY PRIZE: *Subject,* "The Origin of the Psalter." *Prize,* William Morrison Griffith.

MCKINNEY PRIZE DECLAMATION:

Juniors: First, James Thompson; *Second,* Edgar Williams Couper.

Sophomores: *First,* Edmund Randolph Finegan; *Second,* Albert Louis Kaiser.

Freshmen: First, Francis Joseph Burns; *Second,* Laurence Boulton Hogue.

MAYNARD ENTRANCE PRIZE, 1922: No award.

BROCKWAY ENTRANCE PRIZE, 1922: Robert Elson Turner.

MAYNARD ENTRANCE PRIZE, 1923: *Candidate,* Carlyle Edgar Yates.

BROCKWAY ENTRANCE PRIZE, 1923: *Candidate,* Edwin Archibald Stuart, Jr.

FAYERWEATHER PRIZE SCHOLARSHIPS, 1923: John Leslie Coe, Edwin Archibald Stuart, Jr., Carlyle Edgar Yates.

ASSOCIATIONS OF ALUMNI

General Society of Alumni

President, J. Platt Underwood, '70.

Vice-Presidents, Frederick I. Cairns, '87; Schuyler C. Brandt, '89; Walter T. Couper, '92.

Recording Secretary, William H. Squires, '88, Clinton.

Corresponding Secretary, William P. Shepard, '92, Clinton.

Necrologist, Edward Fitch, '86, Clinton.

Half Century Annalist, Isaac S. Signor, '70.

Executive Committee, Edward Fitch, '86; Frederick C. Ferry, Hon., '17; Herman C. G. Brandt, '72; William H. Squires, '88; William P. Shepard, '92.

Alumni Council, President, Frank M. Smith, '84; Vice-President, Cornelius J. Gibson, '94; Secretary, Richard C. S. Drummond, '01. Russell L. Engs, '10; S. Sheldon Judson, '08; Charles E. Clark, '08; Frederick W. Welsh, '92; J. Sawyer Fitch, '08; James H. Foster, '95; James H. Merwin, '99; Edward C. MacIntyre, '05; Robert A. Patteson, '87; Clarence L. Fisher, '00; Daniel W. Redmond, '01; Roy W. Yawger, '99; George H. Sicard, '06; Fred J. Sisson, '04; Dewey J. Carter, '04; John D. Cary, '84; Seward A. Miller, '99; H. Platt Osborne, '91; George B. Ogden, '14; David G. Smith, '89; George B. Swinnerton, '92; Stanley E. Gilbert, '07.

The membership includes all who have received degrees from the College.

The annual meeting is held on Saturday of commencement week in the Chapel; in 1920 on June 12 at 10:30 a. m.

A Trustee of the College is elected by the alumni annually, to hold office for four years. Only graduates of the College of ten years' standing are eligible to election. Graduates of three years' standing are entitled to vote.

Not later than February first of each year a notice is sent to each alumnus who is entitled to vote, stating the vacancy or vacancies to be filled, and asking for nominations. The preliminary ballot closes on the first of April. Not later than May tenth of each year a blank bal-

lot containing the names of the six candidates receiving the highest number of votes is sent to each voter. The ballots for the election of trustees must be sent to some member of the Executive Committee of the Society of Alumni. In order to be counted they must be received before the beginning of the annual meeting of the Society, held on the Saturday of commencement week. The voter's choice must be registered upon the ballot form which is furnished by the College. No other ballots will be received or counted. In case of loss, duplicate blank forms will be furnished upon application.

The ballots as received by the members of the Executive Committee shall be placed in the hands of two inspectors of election, appointed by the Board of Trustees, who shall canvass the vote, declare the result to the alumni meeting, and communicate the result in writing to the Board of Trustees.

A plurality of all ballots cast shall constitute an election, provided that such plurality is not less than one-third of the total vote.

Local Associations

New York City

President, Robert A. Patteson, '87, Tarrytown, N. Y.
Secretary, Dwight Holbrook, '75,
288 St. Anns Ave., Richmond Hill, N. Y.

New York State Academic Principals

President, Charles W. Lewis, '02,
Kingston High School, Kingston, N. Y.
Secretary, Elbert B. Mattoon, '16, Hamilton College, Clinton, N. Y.

Chicago and Western

President, Schuyler C. Brandt, '89, 57 E. Jackson Blvd., Chicago, Ill.
Secretary, C. Tracy Smelzer, '03, 17 S. Menard Ave., Austin, Ill.

Central New York

President, Frederick M. Calder, '82,
City National Bank Bldg., Utica, N. Y.
Secretary, Seward A. Miller, '99, City National Bank Bldg., Utica, N. Y.

New England

President, Thomas H. Norton, '73,
Chemical Dept., 8145 duPont Bldg., Wilmington, Del.
Secretary, Paul D. Kneeland, '09, Winchester, Mass.

Washington and Vicinity

President, William H. Church, '92, Mt. St. Albans, Washington, D. C.
Secretary, Ralph W. Stone, '99, 2739 Macomb St., Washington, D. C.

Southern New York

President, Thomas J. Mangan, '94, 204 Court St., Binghamton, N. Y.
Secretary, George H. Lyon, '13, 68 Murray St., Binghamton, N. Y.

Brooklyn

President, Frank W. Holmes, '96, 44 Court St., Brooklyn, N. Y.
Secretary, Warren C. DuBois, '12, 340 Decatur St., Brooklyn, N. Y.

Syracuse

President, Bradford W. Sherwood, '82,
1441 S. Salina St., Syracuse, N. Y.
Secretary, Clarence L. Hewitt, '92,
Hurd Ave., Onondaga Valley, Syracuse, N. Y.

Pacific Coast

President, Thomas E. Hayden, '91,
830 Monadnock Bldg., San Francisco, Cal.
Secretary, Henry K. Booth, '98, Long Beach, Cal.

Rochester

President, James M. Glass, '97, 99 Somerset St., Rochester, N. Y.
Secretary, John N. McMath, '10, 300 Chestnut St., Philadelphia, Pa.

Eastern New York

President, Frank M. Wright, '05, 739 Broadway, Albany, N. Y.
Secretary, Harold W. Thompson, '12, 560 Myrtle Ave., Albany, N. Y.

Western New York

President, Philip A. Laing, '80, 908 Morgan Bldg., Buffalo, N. Y.
Secretary, Alexander F. Osborn, '09, Ellicott Square, Buffalo, N. Y.

Upper Missouri Valley

President, Nathaniel McGiffin, '93, 430 E. 5th St., Fremont, Neb.
Secretary, Dean R. Leland, '89, 1315 S. 21st St., Lincoln, Neb.

New Jersey

President, Alexander C. Soper, '67, Lakewood, N. J.
Secretary, Henry C. Fenn, '16, 2627 Boulevard, Jersey City, N. J.

Ohio

President, Clarence O. Clark, '83, Rio Grande, O.
Secretary, Ralph W. Leavenworth, '14, 29 Villa Beach, Cleveland, O.

Rome and Vicinity

President, Daniel W. Wardwell, '05, 130 Turin St., Rome, N. Y.
Secretary, Daniel R. Campbell, '02, 323 Kossuth St., Rome, N. Y.

REGISTRATION

Fellows

Hutchinson, Oliver Wesley — Lowell, Mass.
Locke Fellow in Greek — In residence at Harvard University

Perkins, Roswell Roy — Ogdensburg, N. Y.
Root Fellow in Science — In residence at Harvard University

Undergraduates

N—North College. S—South College. C—Carnegie Hall.

SENIORS, CLASS OF 1920

Atwood, Ralph Edward	*Endicott*	B K House
Barnett, Gordon James	*Millbrook*	12 S
Baumler, Francis Peter	*Clinton*	College Street
Beeman, Richmond Simmons	*Canandaigua*	Ψ Υ House
Brandt, Schuyler Buell	*Oak Park, Ill.*	Α Δ Φ Hall
Brewer, Selden	*Westfield*	Emerson Hall
Brown, Ellis David	*West Schuyler*	1 N
Calkins, William Sidney	*Rochester*	Ψ Υ House
Cairns, Samuel Budd	*Houghton, Mich.*	Σ Φ Place
Clarke, Francis Stanton	*Norwich*	Ψ Υ House
Cobb, Wyman Morris	*New York*	X Ψ Lodge
Couper, Edgar Williams	*Binghamton*	Δ K E House
Covey, Harold Walter	*Westfield*	19 N
D'Amico, Charles Clarence	*Albion*	Emerson Hall
Eddy, Sidney Munroe	*Albion*	Ψ Υ House
Elliott, Robert Sewell	*Clinton*	College Street
Foss, Herman Martin	*Delhi*	B K House
Fuller, Dean Mattison	*Carlton*	Ψ Υ House
Gorman, Thomas Bartle	*Utica*	B K House
Griffin, Francis Stanley	*Clinton*	College Street
Guy, Robert Bates	*Binghamton*	7 C
Ives, Irving McNeil	*Bainbridge*	Θ Δ X House
Jewett, Grandjean Grant	*Utica*	21 S
Johnson, Harmon Willard	*Clinton, Ill.*	Silliman Hall

Kaiser, Richard Wagner	*New Rochelle*	4 C
Keane, Walter John	*Binghamton*	Δ K E House
Keeler, Charles Addison	*Binghamton*	Δ K E House
Kennedy, Booth Hosford	*St. Albans, Vt.*	Σ Φ Place
Kingsbury, John MacConnell	*Morrisville*	21 S
Kneeland, Harmon Bonnell	*Binghamton*	X Ψ Lodge
MacLachlan, Archibald Kenneth	*Jamaica*	23 S
Martin, John Tilden	*Yonkers*	Λ Δ Φ Hall
Meritt, Benjamin Dean	*Vernon*	Silliman Hall
Morrow, James Kenneth	*Walton*	Θ Δ X House
Morton, Harman LeGrand	*Westfield, N. J.*	Emerson Hall
Neff, John Frederick, Jr.	*Niagara Falls*	Δ K E House
Nino, Salvator	*Coeymans*	22 S
Ogden, Henry Bradley	*Utica*	Σ Φ Place
Pape, Leslie Manock	*Utica*	Δ Υ House
Parmelee, Edward Kimball	*Kenilworth, Ill.*	Σ Φ Place
Peck, Charles Marshall	*Deansboro*	Deansboro
Peters, James Donald	*Utica*	Δ Υ House
Rice, Leland Melville	*Passaic, N. J.*	23 S
Riley, John Stewart	*Rockford, Ill.*	Δ K E House
Ritterbush, Richmond Hobson	*Dunellen, N. J.*	Δ Υ House
Rosenthal, Sydney Greene	*Johnstown*	9 S
Salbitano, Luigi Umberto	*Utica*	Emerson Hall
Schwarz, Gordon Dickinson	*Jersey City, N. J.*	29 S
Smith, Hadley Edwin	*Cortland*	B K House
Thompson, Arthur Ruel	*Westfield*	19 N
Thompson, James	*New York*	Δ K E House
Thorp, William Willard	*Sidney*	Ψ Υ House
Turner, Theodore Sheldon	*Seattle, Wash.*	5 C
VanNorden, John	*New York*	Σ Φ Place
Wheeler, Stuart Sterry	*Endicott*	B K House

JUNIORS, CLASS OF 1921

Allen, Howard Cameron	*Johnstown*	Θ Δ X House
Ballot, Paul Ludovic	*Brooklyn*	11 S
Barber, Henry Oakland	*Binghamton*	18 N
Barron, Norman Macdonald	*New York Mills*	2 C
Barry, Walter Russell	*Brooklyn*	9 C
Bartlett, Harry	*Kenwood*	20 C

Bodle, Ralph Robinson	*Endicott*	6 S
Bolenius, William Conrad	*Auburn*	Δ Υ House
Burke, John Henry	*Vernon*	1 N
Campbell, Wallace Arthur	*Binghamton*	6 S
Chadeayne, Leander Fisher	*Ossining*	12 S
Clark, Arthur Bailey	*New Haven, Conn.*	X Ψ Lodge
Coonradt, Paul Talbot	*Utica*	12 S
Coupe, Henry Francis, Jr.	*Utica*	5 S
Cowan, Roy Wilson	*Ogdensburg*	19 C
Daniels, Ruel Edgar	*Newark, N. J.*	23 C
Davison, Leon Appenzeller	*Watertown*	21 C
Durkee, John Gordon	*Clinton*	Fountain St.
Finegan, Edmund Randolph	*Harrisburg, Pa.*	X Ψ Lodge
Fisk, Elliott Randall	*Fairport*	9 C
Flynn, John Birchman	*Binghamton*	20 C
Forshay, William Henry	*Glen Ridge, N. J.*	4 S
Fry, Franklin Clark	*Rochester*	16 C
Gapp, Raymond	*Lyons Falls*	20 S
Griffith, William Morrison	*Jamaica*	19 C
Harper, Monteith	*Delhi*	7 S
Hart, Howard Wilber	*Mexico*	20 N
Hawkins, Allen Wardwell	*Syracuse*	11 C
Holler, John Emanuel	*Chambersburg, Pa.*	8 C
Hopkins, Henry Underwood	*New Hartford*	17 C
Hutchens, Harold Goodale	*Phelps*	Θ Δ X House
Hyde, Gerrit Smith	*Norwich*	20 S
Jennings, Daniel Radnor	*Oneonta*	Θ Δ X House
Kaiser, Albert Louis	*New Rochelle*	1 C
Keehn, Grant	*Kenilworth, Ill.*	7 C
King, William Theodore	*Binghamton*	21 C
Larned, Frank Macdonald	*Cleveland, O.*	13 C
Lawler, James Bernard	*Oneida*	14 C
Lopardo, Rocco Anthony	*Utica*	18 S
McKenzie, John Gordon	*Utica*	Emerson Hall
McVay, William Wayne	*Warsaw*	24 C
Maier, Joseph Ward	*New Britain, Conn.*	Θ Δ X House
Mathewson, Angell	*Hastings*	21 C
May, George Elliott	*Rockville Center*	20 C
Moffat, Samuel Raymond	*Pittsburgh, Pa.*	8 S
Parker, Walter Howard	*Binghamton*	X Ψ Lodge
Paton, Theodore Coutant	*Forest Hills*	13 C

Peck, Fayette Hamilton	*Brooklyn*	11 C
Pendleton, Charles Nathan	*Oneonta*	Θ Δ X House
Pickard, Clarence Giles	*Jamestown*	17 S
Pierce, Luther Leroy	*Stockton*	6 S
Pritchard, Pirnie	*Utica*	8 S
Pritchett, William Lewis, Jr.	*Brooklyn*	9 C
Reid, John Gilbert	*New York*	4 S
Rodgers, Joseph Brown	*Rutherford, N. J.*	17 C
Schwartz, Carleton Dudley	*Clinton*	Fountain Street
Seaver, Charles Hunneman	*Brooklyn*	8 C
Sinclair, Robert Owen	*Clinton*	Marvin Street
Stackhouse, Asa Matlack	*Moorestown, N. J.*	2 S
Throop, Allen Eaton	*Wilmington, Del.*	Emerson Hall
Tower, Arthur Frederick	*Albany*	X Ψ Lodge
VanKennen, John Dehn	*Ogdensburg*	5 S
Weller, Horace Bertram	*Albany*	Chapel
Wettel, William Albert	*Kenwood*	20 N
Whitbeck, G. Paul	*North Troy*	3 C
Williams, Robert Irving	*Ossining*	14 S
Wynkoop, William Niver	*Syracuse*	9 C

SOPHOMORES, CLASS OF 1922

Alfange, Dean	*Utica*	18 S
Baker, Norman Richfield	*Richfield Springs*	Θ Δ X House
Bennett, Clinton Congdon	*Cleveland, O.*	16 S
Bland, Harry Gordon	*Sherrill*	25 S
Brandt, Aaron Wilbur	*Oak Park, Ill.*	12 C
Brown, James Michael	*Utica*	1 S
Burroughs, Luther Pitkin	*Albion*	10 C
Chamberlain, Everett Jordan	*Johnstown*	15 C
Comrie, Howard Frank	*Johnstown*	22 C
Conger, Daniel Bennett	*Waterville*	19 S
Craver, Robert North	*Geneva*	A Δ Φ Hall
Culver, Clifford Benjamin	*Syracuse*	24 C
Davis, Lloyd Everett	*New Hartford*	30 S
Dowling, William Harold	*Troy*	23 S
Eckler, Albert Ross	*Jordanville*	Ψ Δ T House
Edie, Adelbert Karl	*Buffalo*	24 S
Evans, Thomas John	*West Winfield*	Ψ Δ T House

Fletcher, Keith Falconer	*Springfield, Mass.*	3 S
Forshay, Roy Inglis	*Glen Ridge, N. J.*	3 S
Gates, Howard Barstow	*West Winfield*	15 S
George, Wendell Dow	*Chaumont*	19 S
Getman, Damon Lawrence	*Oneonta*	16 C
Griffith, James Dayton	*Utica*	Ψ Δ T House
Hallock, Charles Preston, Jr.	*New York*	23 C
Hamilton, John Dayton, Jr.	*Batavia*	Ψ Δ T House
Hartness, Harold Mason	*Whitesboro*	Emerson Hall
Hinke, Frederick William	*Auburn*	8 C
Howland, Wesley Terry	*Hamden*	7 S
Hunt, Howard Stanton	*Norwich*	10 C
Ibbotson, Louis Tappe	*Clinton*	College Street
Keane, Charles Thomas, Jr.	*Binghamton*	10 S
Kelly, John Edward	*Whitesboro*	24 S
Kibler, Gordon Graves	*Medina*	30 S
McClay, David	*Pittsburgh, Pa.*	13 S
Martin, Clement Graham	*Ballston Springs*	2 C
Mason, Robert	*Yonkers*	2 S
Matt, Paul	*Utica*	23 S
Miller, Russell Gordon	*Utica*	13 N
Monaghan, George Patrick	*Canandaigua*	15 C
Moore, John Edmund	*Syracuse*	8 C
Morgan, Kenneth Brown	*Brookfield*	27 S
Morris, Hobart Lewis	*Utica*	7 N
Nichols, Lorrel Brayton	*Buffalo*	4 C
Pelton, Robert Glasgow	*Lowville*	22 C
Perry, Ralph William	*Washington Mills*	26 S
Pitkin, Paul Whittemore	*Union*	B K House
Pope, Thomas Brinkerhoff	*Glencoe, Ill.*	1 S
Reeder, Ronald Joseph Richardson	*Carthage*	12 C
Reeder, Roscoe Giles	*Carthage*	3 C
Roney, Stanley Charles	*Weyers Cane, Va.*	Ψ Δ T House
Schoepflin, Henry Ellis	*Warsaw*	7 N
Severin, Henry, Jr.	*Indianapolis, Ind.*	6 C
Sherman, LeRoy B., Jr.	*New York*	10 S
Smalley, Vincent Ralph	*Syracuse*	Ψ Δ T House
Smith, Arnold	*Ogdensburg*	26 S
Smith, Francis Winfield	*Dempster*	30 S
Smith, Henry Cornelius	*Johnson City*	17 N
Stern, Karl Frederick	*Clinton*	College Street

Stone, Walter Cochran	*Camden*	12 C
Turner, Kenneth Burlen	*Medina*	10 C
Turner, Robert Elson	*Seattle, Wash.*	3 C
Westbrook, Theodric	*Kyserike*	27 S
Whitaker, Raymond Howell	*Endicott*	25 S
White, Montague	*Youngstown, O.*	15 S
Williams, Roger Hoyt	*Ogdensburg*	16 S
Woods, William Joseph	*Clinton*	Kellogg Street

SPECIAL STUDENTS, SECOND YEAR

Burns, Francis Joseph	*Clinton*	Fountain Street
Hawkes, Belknap Carleton	*Kenilworth, Ill.*	2 C
Mulchy, Joseph Thomas	*Utica*	21 C
Ridings, Lawrence Sadlier	*Waterville*	19 S
Sullivan, Percy	*Binghamton*	6 C

FRESHMEN, CLASS OF 1923

Amerman, Henry Duguid	*Marcellus*	Σ Φ Place
Barck, Oscar Theodore, Jr.	*Brooklyn*	12 N
Billingham, Ira Elliott	*Clinton*	2 N
Bixler, Paul Howard	*Cleveland Heights, O.*	B K House
Brandow, George Rexford	*Carbondale, Pa.*	X Ψ Lodge
Breen, John Clark	*Utica*	Ψ Υ House
Bristoll, Donald Andrews	*New Britain, Conn.*	Θ Δ X House
Browne, Frederick Augustine	*Washington, D. C.*	6 N
Burdick, Harold Blake	*Clinton*	Kellogg Street
Burke, Rickard Manning	*Scranton, Pa.*	17 S
Burns, Joseph Anderson	*Flushing*	X Ψ Lodge
Campbell, Albert Walter	*Ossining*	9 N
Cannon, Howard Henry	*Lyons Falls*	21 C
Carusone, John Joseph	*Saratoga Springs*	22 S
Cass, Levi Aldrich, Jr.	*Warsaw*	Δ K E House
Castle, Harold George	*Utica*	Emerson Hall
Catsonis, Achilles	*Lemnos, Greece*	Emerson Hall
Chase, Cleveland Bruce	*Clinton*	Talcott House
Chastney, Robert Hamilton	*Summit, N. J.*	17 S
Chrestien, Francis Eugene	*Rome*	Ψ Υ House
Coe, John Leslie	*Ann Arbor, Mich.*	Emerson Hall

Copeland, Kenneth Douglas	*Cuba*	Δ Υ House
Crane, Stephen Harold	*Clinton*	College Hill
Custer, Charles De Lafayette	*Union*	B K House
Daniels, Joseph Warren	*Scranton, Pa.*	Δ Υ House
Davies, John Howard	*Brier Hill*	Ψ Υ House
Davis, James Vaughn	*Deerfield*	11 S
DeWitt, Virgil Barzallai	*Alligerville*	Σ Φ Place
Dill, Francis Warren	*Utica*	13 N
Doane, James Philip	*Clinton*	X Ψ Lodge
Euler, Edward Edwin	*Mount Vernon*	15 N
Farrand, William Hoffman	*Holley*	21 N
Fenn, William Purviance	*Pittston, Pa.*	Emerson Hall
Ferriss, Walter George	*Brooklyn*	Ψ Υ House
Fitch, Roderick Hawley	*Walton*	Θ Δ X House
Fitzgerald, John Shanley	*Utica*	10 N
Fowler, Richard Stoddard	*Dayton, O.*	Σ Φ Place
George, Henry Louis, Jr.	*Chaumont*	Ψ Υ House
Gould, Gordon Harry Pritchard	*Lyons Falls*	5 C
Gruggel, George Walter	*Whitestone*	X Ψ Lodge
Hall, Arnold	*Binghamton*	Λ Δ Φ Hall
Heffron, Robert Kenyon	*Rochester*	Δ K E House
Hunter, Frank Edward	*New York*	Chapel
Huntsman, Alexander Martinus	*Auburn*	B K House
James, Clinton Spencer	*Chaumont*	25 N
Johnson, William Warner	*Hudson*	X Ψ Lodge
Kaiser, Charles Julian	*New Rochelle*	5 C
Keenan, Stuart Malcolm	*Oneonta*	Θ Δ X House
Kennedy, William Albert	*Utica*	13 N
Langtry, Charles Sumter	*Rochester*	Θ Δ X House
Lanrowitz, Elbert	*Binghamton*	15 N
Lawson, Charles Fulton	*Scranton, Pa.*	9 S
Loomis, Charles Grant	*Drury, Mass.*	Silliman Hall
Loveland, John Niles	*West Falls*	Emerson Hall
McGiffin, Philo Norton	*Fremont, Neb.*	Δ K E House
Macey, William Carrington	*Binghamton*	6 C
Maier, Henry William, Jr.	*New Britain, Conn.*	Θ Δ X House
Marlow, Frank William, Jr.	*Syracuse*	1 C
Mathewson, Franklin Thurber	*Verona*	24 C
Mayo, William Horace, Jr.	*Washington, D. C.*	6 N
Miller, Perry Brockett	*Utica*	14 C
Morehouse, George Crane, Jr.	*Utica*	Ψ Υ House

Morris, Albert Vail	*Oneonta*	Θ Δ X House
Mulford, Leo Shea	*Binghamton*	24 S
North, Frank Pardridge	*Rockford, Ill.*	Δ K E House
Oby, Philip William	*Canton, O.*	Δ Υ House
Palmer, Almon Bristol	*Auburn*	16 C
Palmer, Fred Loren	*New York*	X Ψ Lodge
Peckham, Sherwood Townsend	*New Rochelle*	1 C
Pirnie, Daryl	*Utica*	Δ K E House
Price, Burton Scott	*New Rochelle*	4 C
Raitt, Richard George	*Unadilla*	Δ K E House
Reed, Willard Franklyn	*Holley*	Ψ Υ House
Riggs, Strafford Peshine	*Newark, N. J.*	7 C
Risley, Adelbert Delavin, Jr.	*Clinton*	College Hill
Rounds, Harry Macdonald	*Ridgewood, N. J.*	Δ Υ House
Saxe, Ralph Godfrey	*Madison, N. J.*	10 N
Seaver, Alfred Laighton, Jr.	*Brooklyn*	Ψ Υ House
Severin, Theodore Smither	*Indianapolis, Ind.*	X Ψ Lodge
Sims, Harold Albert	*Clinton*	Beatty Avenue
Smith, Chauncey	*Ogdensburg*	Δ Υ House
Smith, Edward Andrew	*West Kortright*	21 N
Spencer, Warren Gordon	*Whitney Point*	19 N
Spice, William Henry, Jr.	*Utica*	11 C
Stratton, Harry Earl	*Clinton*	Water Street
Stuart, Edwin Archibald, Jr.	*Adams*	Emerson Hall
Swartwout, Henry Williams	*Clinton*	Chestnut Street
Thomas, David Maynard	*Remsen*	Emerson Hall
Thompson, Watson Massey	*Jamaica*	23 S
Tillotson, Max Chase	*Wyoming*	Emerson Hall
Ungar, Schuyler VanRensselaer	*Arlington, N. J.*	13 S
Vail, Curtis Doughty	*Wappinger Falls*	9 S
Walrath, Morton Tomlinson	*Troy*	Emerson Hall
Warren, Arthur Elton	*Remsen*	Ψ Υ House
Warren, Carl Vincent	*Remsen*	Ψ Υ House
Weld, Frederic Decker	*Auburn*	X Ψ Lodge
Welsh, Stanton Parks	*Binghamton*	Δ K E House
White, George Broughton	*Youngstown, O.*	Δ Υ House
Willard, John Kent	*Minneapolis, Minn.*	A Δ Φ Hall
Williams, Jay Gomer	*Rome*	21 N
Wilson, Hugh Harper	*Nebraska City, Neb.*	A Δ Φ Hall
Yates, Carlyle Edgar	*Yonkers*	Emerson Hall

SPECIAL STUDENT, FIRST YEAR

Acebron, Valentin D. *Laoang, Samar, P. I.* **Emerson Hall**

SUMMARY OF REGISTRATION

Fellows	2
Seniors	55
Juniors	67
Sophomores	66
Freshmen	102
Special Students, Second Year	5
Special Student, First Year	1
Total	298

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